

OUR  
20th YEAR

BADGER STATE

# Smoke Signals

For Radio Amateurs • By Radio Amateurs

RETURN ADDRESS:  
Kenneth A. Ebnetter  
822 Wauona Trail  
Portage WI 53901

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Published Monthly Since 1969 • Single Copy: \$1

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Vol. 20 No. 2 - 230th Consecutive Monthly Issue - Baraboo, Wisconsin - February 1989

## Frank Guth, W9BCC, Honored at Surprise Dinner



Mike Pagel, KA9LAQ (left), President of the Central Wisconsin Radio Amateurs, presents a plaque to Frank Guth, W9BCC, at a surprise dinner in his honor. Details are on page 8 of this issue.

## ARRL to Study No-Code License

The January QST editorial was entitled "Why Morse Code?", and pointed out that "differences.... divergent views of what is best for Amateur Radio.... (are).... a healthy and necessary part of any representative democracy.... (and have) a place in our League."

A subject on which many Radio Amateurs hold divergent views, namely a no-code license, is surfacing again. Consideration being given to a restructuring of Canadian amateur licensing (which, contrary to some reports, has not progressed beyond draft stage), and actions which point the way to an end of shipboard Morse operations by the end of the century, are causing the issue - last discussed in 1983 - to be revisited.

Following a discussion of the January editorial at its December 10 meeting in Baltimore, the ARRL Executive Committee unanimously voted that the ARRL President appoint a special six-member committee to explore the implications of a no-code license and make recommendations to the ARRL Board. This Committee would be drawn from the Board, Amateur Radio Industry, and the amateur community at large.

(From The ARRL Letter, published  
by the American Radio Relay League)

ELMER

by Rich Regent, K9GDF



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## Swapfests and other Social Events

**MARCH 4, 1989.** Fox Cities ARC Swapfest, Appleton High School - East, 2121 Emmers Drive, Appleton, WI. Amateur Exams. (see Testpoint) Dealers at 6:00 a.m. and general admission at 7:30 a.m. Tables: \$5.00 at the door or in advance. Send SASE to Don Baker, NB9J, 621 W. x7th St., Kaukauna, WI 54130.

**MARCH 18, 1989.** Michigan Crossroads Hamfest, Marshall, MI. Contact: SMARS, po box 934, Battle Creek, MI 49016

**MARCH 19, 1989.** The annual Wisconsin QSO Party sponsored by the West Allis RAC. Watch BSSS for complete details.

**MARCH 19, 1989.** Tri County ARC Swapfest, Jefferson, WI. (see ad this issue of BSSS)

**MARCH 19, 1989.** Lamarsfest 1989 at the Lake County Fairgrounds, Grayslake, IL. Contact: LAMARS, Box 751, Libertyville, IL 60048.

**APRIL 9, 1989.** Madison Area Repeater Assn. Swapfest, Dane County Expo Center, Forum Bldg., Madison, WI. Contact MARA, Box 4007, Madison, WI 53711, or phone (608) 274-5153. (see ad on last page and watch for full ad next issue.)

**APRIL 28-30.** The Dayton Hamvention! - The biggest ham gathering in the world.

**MAY 6, 1989.** The Ozaukee Radio Club, Inc. will sponsor its eleventh Annual Swapfest, at the Circle B Recreation Center, Highway 60, Cedarburg, WI. Sellers admitted at 7:00 a.m. and general admission at 8:00 a.m. Admission is \$2.00 in advance or \$3.00 at the door. Four foot tables are \$2.00 each, in advance only. Food and refreshments will be available. For tickets, tables maps, or more information send business size SASE to ORC SWAPFEST, N4515 Crystal Springs Ct., Fredonia, WI 53021.

**JULY 8, 1989.** South Milwaukee ARC Swapfest, Oak Creek, WI. Amateur Radio Exams. (see ad on last page)

**October 15, 1989.** The 11th Annual Fall Ham & Computer Swapfest, Waukesha, WI., sponsored by the Kettle Moraine Radio Amateurs, Inc. Contact KMRA Swapfest, 313 Hillview Circle, Waukesha, WI 53188.

As a service to our readers, this section of Badger State Smoke Signals is available without charge to list your upcoming Swapfest, Hamfest, dinner, picnic, party or other event of interest to Radio Amateurs in Wisconsin and nearby areas.

Send information on your event to Kenneth A. Ebner, K9EN, 822 Wauona Trail, Portage, WI 53901. In addition, space is available at attractive rates on our advertising pages. For information on rates and requirements for our advertising pages, please contact K9ZZ or K9EN.

## Club Meetings

**BADGER AMATEUR RADIO SOCIETY**  
(W9YT - UNIVERSITY OF WISCONSIN - MADISON)  
Monthly while school in session - 2nd Wednesday - 7:30 p.m. - B-314, Electrical Engineering Building.

**CENTRAL WISCONSIN RADIO AMATEURS, LTD.**  
(STEVENS POINT)  
Second Wednesday.

**EAU CLAIRE AMATEUR RADIO CLUB**  
2nd Tuesday - 7:30 p.m. - Parks and Recreation Bldg., Oxford and 1st Streets, Eau Claire. Hams, guests welcome. Travelers welcome on wide area club repeater K9UXP, 146.31/91.

**FOUR LAKES AMATEUR RADIO CLUB (MADISON WI)**  
First and third Tuesdays - 7:30 p.m. - Red Cross Bldg., 4860 Sheboygan Ave.

**FOX CITIES AMATEUR RADIO CLUB**  
Third Monday - 7:00 p.m. - Roosevelt Jr. High School, 318 E. Brewster St., Appleton. Info: (414) 735-6294. Winter Banquet, January 23, 1988. Contact KA9MPP.

**GREEN BAY MIKE AND KEY CLUB**  
Second Thursday - Red Cross Bldg., corner Danz and Deckner, Green Bay.

**GREEN FOX AMATEUR RADIO CLUB**  
Third Monday - 7:30 p.m. - Green Lake Town Hall, int. of county hwy. K and N.

**KETTLE MORAINES RADIO AMATEURS**  
Second Friday, 7:30 p.m. at the Kettle Moraine High School, located near the intersection H Hwys 18 & 83 in Wale, WI.

**LAKESHORE RPTR. ASSN.**  
4th Tuesday, Jan., Apr., Jul., & Oct., 7:30 p.m. Red Cross Bldg., 4521 Taylor Ave., Racine, WI.

**MANITOWOC COUNTY RADIO AMATEURS**  
Board meeting, First Wednesday - 7:00 p.m. - City Hall, 817 Franklin St., Manitowoc.  
General meeting, Second Wednesday - Red Cross Building, 1816 Washington St., Manitowoc.

**MENOMONEE FALLS AMATEUR RADIO CLUB**  
Last Tuesday - Doors open 7:30 p.m., meeting begins 8:00 p.m. - Security Savings and Loan, Menomonee Falls. Amateurs and guests welcome.

**MILWAUKEE RADIO AMATEURS CLUB**  
Fourth Thursday - Wauwatosa Savings and Loan, 7500 W. State St. (November on the third Thursday. No meetings in July, August and December.) Meetings begin at 7:00 pm.

**OZAUKEE RADIO CLUB**  
Second Wednesday - 7:30 p.m. - Saukville Community Center.

**QCWA - WISCONSIN CHAPTER #55**  
For information about QCWA, contact Richard Regent, K9GDF or Mickey Dolgin, KB9G. The Wisconsin Chapter holds Spring and Fall dinner meetings. (Watch BSSS for dates.) You are invited to check in the QCWA net on Sundays on 3.985 MHz. at 8:30 a.m.

**QCWA - SOUTHEAST WISCONSIN CHAPTER #162**  
Meets third Monday monthly, 7:30 p.m., Around the Clock Restaurant, 3012 Rapids, Drive, Racine.

**RACINE MEGACYCLE CLUB**  
Second Monday, 7:30 p.m., Red Cross Bldg., 4521 Taylor Ave., Racine, WI

**RIVERLAND AMATEUR RADIO CLUB**  
First Tuesday - 7:30 p.m. - Onalaska Community Center, Onalaska WI.

**ROCK RIVER RADIO CLUB**  
First Tuesday - 7:30 p.m. CST, 8:00 p.m. CDT - Dodge County Sheriff's Dep't, 141 N. Main, Juneau WI. ARES net - 146.64 MHz., Monday 7:30 p.m. CST, 8:30 p.m. CDT. 7277 Khz., Saturday 10:30 a.m.

**SHEBOYGAN COUNTY AMATEUR RADIO CLUB**  
Second Tuesday - 7:00 p.m. - Sheboygan Red Cross/Boy Scout Bldg., 2032 Erie Ave.

## BADGER STATE SMOKE SIGNALS

### OFFICERS AND STAFF

**CHAIRMAN**  
Kenneth A. Ebner, K9EN  
822 Wauona Trail  
Portage, Wisconsin 53901  
(608) 742-3560

**EDITOR**  
Jim Romelfanger, K9ZZ  
412 1/2 Ash Street  
Baraboo, WI 53913  
(608) 356-4249

**TREASURER**  
Jim Decker, WB9UQT  
P.O. Box 337  
Baraboo, Wisconsin 53913

**ADVERTISING MANAGER**  
Harry Westlund, K9EHJ  
720 Jefferson Street  
Baraboo, WI 53913  
(608) 356-6836

### SUBSCRIPTIONS

1 year	(12 issues)	\$8.50
2 years	(24 issues)	\$16.00
3 years	(36 issues)	\$23.00

ADDRESS CHANGES AND CORRECTIONS should be sent to Kenneth A. Ebner, address above.

EDITORIAL MATERIAL, PHOTOGRAPHS, FEATURE ARTICLES, AND EXCHANGE PAPERS should be sent to Jim Romelfanger, address above.

DISPLAY ADS or INQUIRIES REGARDING DISPLAY ADS may be directed to Harry Westlund or Kenneth Ebner, addresses above.

SUBSCRIPTIONS should be sent, with check or money order (do not send cash), to Jim Decker, address above.

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### EDITORIAL DISCLAIMER

The opinions expressed in editorials, guest editorials, columns, articles, and letters are the opinions of the authors only, and do not, unless otherwise stated, express or imply agreement or endorsement by Badger State Smoke Signals, or by any other organization.

**SOUTH MILWAUKEE AMATEUR RADIO CLUB**  
First Wednesday - Legion Post 434, Shepard Ave., Oak Creek WI. Auctions in March and October.

**TRI-COUNTY AMATEUR RADIO CLUB**  
Second Sunday of each month. Meetings are held at 7:00 p.m., at the Trinity Lutheran Church, 314 Barrie, Fort Atkinson, WI.

**WASHINGTON COUNTY AMATEUR RADIO CLUB**  
Second Tuesday: ARES/RACES - 7:30 p.m., club meeting - 8:00 p.m., Town of Polk Town Hall, Hwy. 60 and Scenic Dr. Net on 146.13/73 every Monday 7:30 p.m.

**WATERTOWN AMATEUR RADIO CLUB**  
First Thursday of the month at 7:00 p.m., Eaton Corp., 901 s. 12th St., Watertown, WI

**WEST ALLIS RADIO AMATEURS CLUB**  
Second Tuesday - 8:00 p.m. - St. Francis Savings, 9330 W. Greenfield Ave.

**WISCONSIN ASSOCIATION OF REPEATERS**  
The annual meeting with election of officers and proposed By-Law Changes will be held on the second Saturday in March. Repeater licensees, trustees, and sponsors are urged to attend W.A.R. meetings. All interested parties are welcome, as well.

**WISCONSIN VALLEY RADIO ASSOCIATION (WAUSAU)**  
First Tuesday - 7:30 p.m. - Location varies; info on 146.04/64, Wausau.

**YELLOW THUNDER AMATEUR RADIO CLUB (BARABOO)**  
Days rotate: 1989 meeting dates: Tue., Feb. 14, Wed., Mar. 15, Thu., Apr. 13, Mon., May 15, Tue., Jun. 13, Wed., Jul. 19, Thu., Aug. 17, Mon., Sep. 18, Tue., Oct. 17, Wed., Nov. 15, Thu., Dec. 14, 1989. Monday meetings in room 28B of the Baraboo Civic Center; all others in room 25. Meetings start 7:30 p.m.

Let Badger State Smoke Signals know your club's meeting dates, and we will let our readers know of your meetings and activities. There may be Amateurs in your area interested in joining your club, or members of other interested in making an interclub visit.

**THE BARGAIN MODE**  
**SSB**  
**SELL SWAP BUY**  
**OUR WANT ADS GET RESULTS**

**FOR SALE:** Colorful United States Stamps. 100 all different. \$1.00 postpaid. Richard Regent, K9GDF, 5003 South 26th Street. Milwaukee, WI 53221.

#### SHORT SHORTS (WOCT)

If a goldfish should want a vacation, who would know?

We heard of a cat hospital where they charge \$7.50 purrr.

If you are alone, you could be in bad company.

## The TEST POINT



The following are known locations where Amateur Radio license examinations are scheduled in the Badger State area. (Underlined are added since last months BSSS.)

February 1, 1989	Milwaukee, WI (MRAC)
<u>February 18, 1989</u>	<u>Milwaukee, WI (BE)</u>
March 1, 1989	Milwaukee, WI (MRAC)
<u>March 18, 1989</u>	<u>Milwaukee, WI (BE)</u>
March 18, 1989	Menomonie, WI
April 5, 1989	Milwaukee, WI (MRAC)
<u>April 15, 1989</u>	<u>Milwaukee, WI (BE)</u>
April 15, 1989	Eau Claire WI
May 3, 1989	Milwaukee, WI (MRAC)
<u>May 6, 1989</u>	<u>Milwaukee, WI (BE)</u>
June 7, 1989	Milwaukee, WI (MRAC)
June 17, 1989	Menomonie, WI
<u>June 18, 1989</u>	<u>Stevens Point, WI</u>
July 15, 1989	Eau Claire WI
<u>September 16, 1989</u>	<u>Milwaukee, WI (BE)</u>
October 14, 1989	Eau Claire WI
November 11, 1989	Menomonie, WI
<u>December 2, 1989</u>	<u>Stevens Point, WI</u>
Monthly, First Sat.	Racine, WI
<u>Monthly, Last Sun.</u>	<u>Tomahawk, WI</u>
Monthly, Third Sat.	Loves Park, IL

#### GENERAL RULES FOR MOST EXAMINATIONS:

Be sure to check with sponsors in the event there are changes and/or errors in the dates or information given.

Most examinations require filing an FCC Form 610 and advance registration at least 30 days before the exam date. (Some VECs permit walk-ins. Check with sponsor.)

To register, you must first secure a copy of the current FCC Form 610 and fill it out completely (AND CORRECTLY). Get your form from an FCC Field Office, the ARRL or Badger State Smoke Signals. Send a 25¢ SASE if you request one from the ARRL or BSSS. In most cases, forms can also be obtained from the sponsoring group.

ARRL/VEC examinations require a check for \$4.75 payable to "ARRL/VEC".

The FCC now requires applicants to show their original Amateur license to the VEC. A copy of your license must be attached to your FCC form 610. You will also be required to have a photo ID, or other acceptable identification.

Technician class licensees must show proof of testing before March 21, 1987, in order to upgrade to General with a code test only.

Additional information is given below.

#### MILWAUKEE RADIO AMATEURS' CLUB - MRAC/VEC

February 1, 1989, March 1, 1989, April 5, 1989, May 3, 1989, and June 7, 1989

Tests are Wednesday evenings at 7:00 p.m. at Wauwatosa East High School, North 74th Street and Milwaukee Avenue. Enter through the southmost entrance on 74th Street. Go to room 256 on the second floor. Please arrive promptly so testing can be completed before 10:00 p.m. Bring your original license and three good photocopies, a pen, and \$4.55 for the exam fee. Walk-ins accommodated as time permits. Register in advance on a Postal Service 15 cent post card; print the grade of license you are applying for, and your name, address, and telephone number. Send the

card to The Milwaukee Radio Amateurs' Club, Inc., 3840 South 43rd Street, #21, Milwaukee, WI 53220. For further information, contact Ed Seruga, KE9JJ, Secretary, MRAC at the above address. Telephone: (414) 545-6299 or (414) 546-0647.

#### BADGER EXAMINERS (BE) - MILWAUKEE

1989 examination dates: February 18, March 18, April 15, May 6 (Ozaukee Swapfest), and September 16.

Unless otherwise noted, examinations are administered beginning at 1:00 p.m. at St. Nicholas Parish, 5353 N. Green Bay Ave. (2 1/2 blocks south of Silver Spring), Milwaukee. Number for coin telephone at exam location is 228-9994. Walk-ins are welcome. Bring your original license, a good photocopy of it, and a second form of identification. Technician license holders must bring proof of having been tested prior to March 21, 1987 to upgrade to General with code test only. To register in advance, send a post card with your name, test or tests you wish to take, date you wish to be tested, your call sign, address and telephone number to Badger Examiners, Gary J. Sharbuno, WA9UJK, 5119 W. Willow Rd., Brown Deer, WI 53223.

#### EAU CLAIRE, WISCONSIN

1989 examination dates: April 15, July 15, October 14

The July exams will be given in association with the Eau Claire Hamfest at the 4-H Junior Fair Grounds. All other tests will be given in the Facilities Management building on the University of Wisconsin - Eau Claire campus. Exams are given from 9 a.m. until noon. All walk-ins accepted. For further information, call Carl Searing, W9NW, at 715/834-1303.

#### TOMAHAWK, WISCONSIN

1989 examination dates: January 29; February 26; March 26; April 30; May 28; June 25; July 30; August 27; September 24; October 29. Examinations are given at the Tomahawk Teen Center at the corner of Lincoln and 5th Street. Registration begins at 8:30 a.m.; tests start at 9 a.m. Walk-ins welcome. Novice tests given by appointment only. For more information, contact Greg Garner, WA9W, 4088 Hwy. 51, Harshaw WI 54529, or call 715/453-7096 or 715/282-6490.

#### MENOMONIE, WI (ARRL/VEC)

June 17, November 11, 1989.

Sponsored by the Dunn County ARC. Walk-ins only. Credit Union Office Building, Conference Room, lower level, 444 S. Broadway, Menomonie, WI. Contact: Dr. Thomas W. King, KD9TT, c/o office, 444 S. Broadway, Suite 1, Menomonie, WI 54751. (715) 235-4747 (O), 235-5757 (H).

#### RACINE, WISCONSIN - ARRL/VEC

First Saturday of each month except during summer and the Christmas holidays.

Exams are given at the Red Cross Building, 4521 Taylor Ave., Racine, WI. Walk-ins are permitted.

Send pre-registration to: William R. Firchol, Jr., N9DMP, 1912 27th Street, Kenosha WI 53140.

Last Sunday of every month.

Tomahawk Volunteer Examiners (ARRL/VEC). Tomahawk, WI. No pre-registration required, but appointment would be appreciated. Registration (continued on page 19)

# Wisconsin Nets Association Ltd.

## WISCONSIN NETS

Net	WNA	Freq	UTC	CST	Manager
BWN	Yes	3984	1200	0600	KC9CJ
BEN	Yes	3985	1800	1200	KA9RII
WSBN	Yes	3985	2330	1730	K9ANV
WNN	Yes	3723	2400	1800	KA9TTM
WSSN	Yes	3645	0030	1830	N9BDL
WIN/E	Yes	3662	0100	1900	WB9ICH
WIN/L	Yes	3662	0400	2200	W9NGP
NWTN	Yes	34/94	0030	1830	NS9Q
Gr Bay	No	72/12	0245	2045	WB9NRK
			Thu	Wed	
RACES	No	3993.5	1815	1215	WC9AAG
			USB Tues and Thurs		
RACES	No	3993.5	1400	0800	WA9OAY
			LSB Sunday		

## Section Manager's notes

Richard R. Regent, K9GDF  
5003 South 26th Street  
Milwaukee, WI 53221

The 1989 Wisconsin QSO Party starts at noon on March 19th. Get on the air to meet Wisconsin amateurs. Give the Wisconsin QSO Party a try; check QST Contest Corral or ask other amateurs for details.

Milwaukee RAC amateur exams March 1st, 7 p.m., at Wauwatosa East High School at North 74th Street and Milwaukee Avenue; reservations with KE9JJ.

March 4th, Fox Cities ARC Hamfest, Appleton East High School, with League booth and guest speakers, including K9GDF.

Fox Cities ARC now has 135 members and growing.

Dunn County ARC walk-in exams at Credit Union Office Building March 18th; info from KD9TT in Menomonie.

March 19th, Tri-County ARC Hamfest, Jefferson County Fairgrounds west of Jefferson.

N9BDL was a Net Control Station (on WNA nets) 438 times and checked into 1,867 net sessions during last year.

KC9CJ, busy with Apple IIe computer, has achieved 300,000 point score on Snake Byte game program.

## Glass Arm Report (Wisconsin Slow Speed Net)

Lee G. Andreas, N9BDL, Net Manager  
Route 1, 7600 Highway D East  
Lake Tomahawk, WI 545398-9500

Once again, it is time to recognize those stations who support the Wisconsin Slow Speed Net. First, the top thirteen stations that checked into the net during calendar 1988. They are listed by call sign and the number of times that they checked into the net.

N9BDL - 349	W9NGP - 267
N9FVN - 192	KA9FVX - 169
AG9G - 143	K9BED - 137
W9CXY - 111	KA9YSK - 80
WB9ICH - 59	NC9G - 40
KY9P - 31	K9LGU - 30
N9HDE - 27	

The last call on the list is that of Scott, a 16-year-old student at Platteville High School who did not upgrade to General class until August of 1988. With that late start, he beat all of the elected and appointed ARRL officials of the Wisconsin Section. Without getting negative, I'd like to compliment Scott on a fine job. He has also been active on the evening SSB net, and he does handle traffic. We need a few dozen more like Scott.

Now, the stations who served as net control station during 1988. Without a NCS, the net doesn't do a thing. Here are the troops who keep the net rolling. Once again, the call followed by the number of times they served as NCS:

N9BDL - 131	AG9G - 49
W9NGP - 47	NC9G - 39
WB9ICH - 37	N9FVN - 30
KY9P - 29	K9BED - 3
KA9FVX - 1	

My thanks to everyone on these two lists except the first one. He has to be there.

There is a rumor that Slim, W9NGP, the manager of Late WIN, said something nice about me in this publication. I'm sorry to disappoint him, but after checking in a few times during vacation, I find that the 2200 Club starts their meeting in the middle of the night. Four thirty a.m. comes extra early up here in the land of lakes and pines.

Every December, I write a letter to each certificated net member, and enclose their endorsement stickers from the past year. One of the members of WSSN lives in a nursing home in Kenosha. If you only check into phone nets, you will not hear him. There was an excellent writeup on him in a past issue of BSSS, and in it was there a statement that he does not have a microphone. This brass pounder has been working CW about 50 years, and is the easiest person on all the CW nets to send traffic to. He gets what you send the first time, no exceptions. I have done less than a perfect job of transmitting the code characters, and he never needs a fill. The present chairman of the WNA send his first thru traffic to him, and was amazed at his ability to copy a "Nervous Nelly". This is not to put down the other CW traffic handlers, but rather indicates that Jim is in a class by himself. Some hams wonder what we get out of being a net manager. The following is the message sent to me by Jim Law, W9CXY, thanking me for that year-end letter:

NR 63 R W9CXY 14 KENOSHA WI DEC 16Z  
N9BDL  
BT  
MANY THANKS FOR YOUR EXCELLENT MORALE  
BOOSTING LETTER X ARL SIXTY ONE X 73  
BT  
JIM

This radiogram is the "coin of the realm". See you again on these pages in three months.

73, Lee, N9BDL, NM

## Wisconsin Intrastate Net - Early (WIN/E)

Larry Guthu, WB9ICH, Net Manager  
706 West Jennings  
New London, WI 54961

Happy new year to all. Boy, how the time goes by when you're not looking! I hope that everyone had a good 1988, and we are looking forward to a better 1989.

Looking back on 1988 as far as WIN is concerned, we had a very good year. The traffic count was way up, but our percent of traffic offered to traffic cleared took a small downward jump. We need to have more areas of the state check in. If you can handle some of the traffic brought in the net, whether by packet or 2 meters, or by taking it to the SSB nets, don't be shy - we can use all the help we can get.

Along those same lines, I would like to give all those on the net a big round of applause, for we were one of the most active nets handling traffic, along with the BWN. That really says a lot about the net and the people we have on our net. Thanks again, guys and gals; it makes a net manager proud to work with such a fine group of people.

I hope that 1989 will be a banner year for us, some come on and dust off those keys and keyers and join us down on 3.662 and see what you are missing.

Here are the top ten checkins for December:

1 - N9BDL - 30
2 - W9YCV - 25
3 - W9CBE - 23
4 - WB9ICH - 18
5 - W9NGP - 17
6 - KA9FVX - 16
7 - W9CXY - 15
K9GDF - 15
W9KLN - 15
W9SIZ - 15
8 - AG9G - 11
KA8BBY - 11
9 - N9FVN - 10
10 - N9CKC - 9

I hope to see many of you during the course of the year, and always remember to keep that WINning spirit flying high in "89".

All the best and 73,  
Larry, WB9ICH

## Wisconsin Intrastate Net - Late (WIN/L)

Ed Rice, W9NGP, Net Manager  
W126 Land Road  
Oconomowoc, WI 53066

All of the totals for the last quarter of 1988 are up, compared to the last quarter of 1987, so we are growing steadily. My thanks to all the NCS's and 9RN's who are the ones that make the net work.

The station with the most QNI for the quarter in W9YCV with 71, followed closely by W9UW with 68. Jim, W9CXY, has the most times 9RN with 26.

(continued on page 19)





## HERE and THERE



**PICNIC FUN:** L. J. Hemmer, WB9TFJ, left, and Harv Hamer, K9YHO, both of Baraboo, enjoy the food and fun at the annual Green Fox Amateur Radio Club Picnic in August, 1988. This year, BSSS will try to let you know about the picnic BEFORE it happens; we found out about the date much too late to print it last year. The picnic is open to all who want to attend, and features an auction. Thanks to Al Johnson, WB9FMU, for the photo!

:-----:

**DAYTON ANNOUNCES SCHOLARSHIPS:** The Dayton Amateur Radio Association (DARA) is now accepting applications for its 1989 Scholarship Program. The program is open to any licensed amateur graduating from high school in 1989.

Awards will be based on a combination of financial need and academic accomplish-

ment, with consideration given for service to Amateur Radio and community involvement. There are no restrictions on the student's course of study. Applicants are not restricted to those preparing to four year baccalaureate degrees; those working toward associate degrees or planning to attend an accredited technical institution will also be considered. Each winner will receive \$1000 toward their tuition at the school of their choice. All entries must be postmarked no later than May 15, 1989; award winners will be announced on or about June 1.

For further information and application forms, write to: Scholarship Committee, 317 Ernst Ave., Dayton, OH 45405. (From The ARRL Letter, 12/16/88)

:-----:

**ARRL FILM WINS GOLD MEDAL:** The ARRL film, "The New World of Amateur Radio," (TNWOAR) won the Gold Medal in the Science and Technology category of the 1988 International Film and TV Festival of New York. The hefty (6.7 oz.) gold-plated brass medal and information on the entries is now at ARRL Headquarters.

It was especially pleasing to note that "TNWOAR" had eight competitors, including Public Broadcasting "heavyweights" WGBH in Boston and WNET in New York. The medal will be proudly displayed in one of the new trophy cases gracing the lower hallway at ARRL HQ. (From The ARRL Letter, 12/16/88)

:-----:

**WALKER A. "TOMMY" TOMPKINS, K6ATX, SK:** Walker A. "Tommy" Tompkins, K6ATX, 79, became a Silent Key on Thanksgiving Day, 1988. As author of the Tommy Rockford Youth Fiction Series, Tompkins has left a legacy for future generations of radio amateurs.

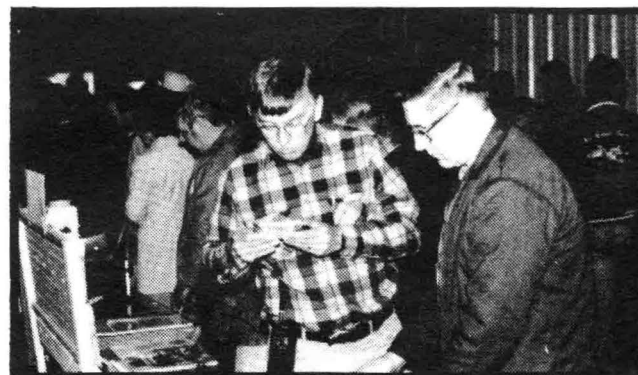
A noted author, historian, television screenwriter, radio broadcaster, newspaper columnist, and ham operator, Tompkins was well known for delving into the history of the Santa Barbara, California area with his twice-daily historical vignettes on a local radio station.

Tompkins, licensed since 1952 as K6-ATX, the call sign that made his alter ego Tommy Rockford famous, introduced many young people to the world of Amateur Radio by his books, "SOS at Midnight", "CQ Ghost Ship", "DX Brings Danger",

"Death Valley QTH", and "Grand Canyon QSO". A new book, "Murder by QRM", is scheduled for release by ARRL in early 1989. He also wrote about Amateur Radio in National Geographic, Parents, Popular Mechanics, CQ, and QST magazines.

Tompkins is survived by his wife Barbara, a son, two daughters and two grandsons. Amateur Radio has lost a true friend and ambassador with the passing of "Tommy," K6ATX.

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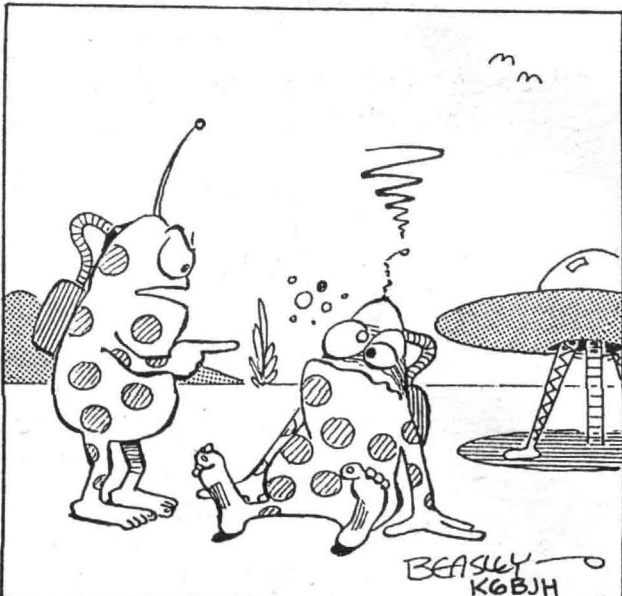


**SWAPFEST SHOPPING:** Bob Garske, K9JMP, Poynette (wearing the radio), and John Thompson, WB9SVL, Baraboo, enjoy browsing at the Jefferson Swapfest in March, 1988. This year's event is March 19; see the ad elsewhere in this issue. K9EN photo.

Why not send a few photos to BSSS?

## Madison Beginners Classes Scheduled

Classes for beginning amateur radio operators will be offered in Madison beginning January 25. The classes are sponsored by the Four Lakes Amateur Radio Club. Successful completion of the class series will qualify students for the Novice Class amateur radio license. The classes will meet from 7:00 to 9:00 p.m. at Fire Station #2 at Grand Teton and Grand Canyon Roads. The first class session will be primarily for orientation; it will be possible for students to begin at the second class meeting. More information is available from Joel Kupferberg (N9CPW) at 271-1130 (home) or 255-6696 (office).



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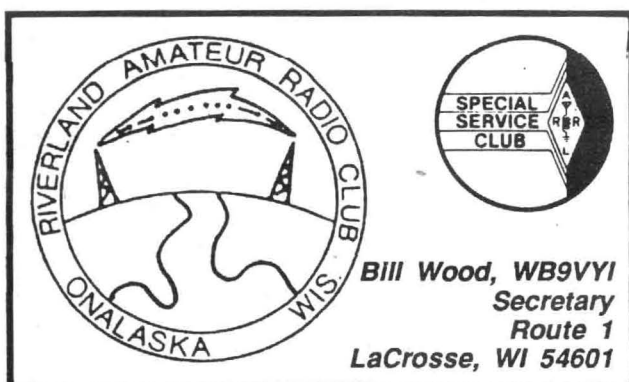
Name: \_\_\_\_\_ Call (if any): \_\_\_\_\_

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☐ 1 year ☐ 2 years ☐ 3 years

☐ new ☐ renewal





The regular monthly meeting of the Riverland Amateur Radio Club was called to order at 7:35 p.m. on January 3, 1989, by President Craig Goldbeck. The minutes of the December meeting were approved as read from the Badger State Smoke Signals. The treasurer's report was approved. Along with the treasurer's report, a yearly summary of the club's finances was passed around for all to review.

Roll call was taken, showing that 27 club members were in attendance, and 3 guests.

### 37/97 REPORT

The new ACC RC-85 controller was shown to the members. The repeater was scheduled to be here toward the end of January. We still have not purchased an amplifier, but hope to by the end of the month.

### EXAM REPORT

This test session had a low pass percentage, but it was encouraging that the persons passing were virtually newcomers to the hobby.

### OLD BUSINESS

There was a reminder of the Christmas Dinner that would be held at the New Villa at 6:30 p.m. We will be in a separate room; there will be door prizes and entertainment.

There was a request for more help with the Amateur Radio demonstration for the local Girl Scouts on January 17.

There was a reminder that the 1989 dues are to be in by the March meeting.

The suggestions for meeting night programs are not coming in as requested; please get them to the NEW secretary/-treasurer.

### NEW BUSINESS

Dick, KØJYB, informed the club members that Charlie, KA9UUK, had had an accident in his home; he was not seriously injured, but was very sore at this time.

He also announced that he has tentatively secured a person to perform for us at the Christmas dinner, and that he would accept the expense for it.

Elections were held, and the following will be your new club officers for 1989:

President: Dick Low, KØJYB  
Vice-President: George Kroner, KA9-HOP

Secretary/Treasurer: Bill Wood, WB9-VYI

The monthly drawing was won by Glen Whitlock, NØBBW.

The meeting was adjourned at 8:05 p.m.

Respectfully submitted:

Greg A. Miller, Sec./Treas. RARC

### PRESIDENT'S GAVEL

I really want to thank all of you who turned out for the January meeting. Never in the three years that I've been president have I witnessed such a large turnout for an election night. This is as it should be though; it shows that people are interested in their club, and with the new repeater being put into service, I hope that interest will snowball into bigger and better things.

Even though I'm not returning as an officer this year, I plan to play an important part in club activities this year. As we go thru the transition period to our new officers, I would hope that you have all the patience with and respect for them that you've given Mike, Greg and myself. Our new officers are very club-oriented people, and should serve us well in the coming year. Come out and get to know them better.

I again want to thank Charlie Burch for his offer about the club repeater loan, as you read about in the minutes. Also, at this time, I would like to all of you who have contributed in some way to the repeater fund. There are many of you who have donated hundreds of dollars to the fund who are the unsung heroes, because you wish to remain anonymous. The club thanks you wholeheartedly.

The Repeater Fund will also stay alive until we pay off our loan so, if you wish to contribute, you can. Some people may feel that if they don't donate to the fund that he or she has no say in a vote on equipment and such matters, but may I

remind you that it belongs to the club, and we are all equal, whether we donated one dollar or a hundred.

So, as I type my last editorial for at least a year, I would like to thank all of you who helped me make our club better (hopefully) in one way or another in 1988. Hope to see many of you at the club dinner on the 14th at the New Villa at 6:30 p.m.

73 for now,

Craig

### MEMBERS PRESENT

Greg A. Miller	KA9FOZ
Walter Altus	WD9GCR
John Jorenby	KA9ETH
Craig Goldbeck	N9ETD
George Kroner	KA9HOP
Curt Phelps	KA9YPF
Mickey Simpson	WD9GYT
Rick Williams	KV9U
Dick Low	KØJYB
Hugh Barker	KAØEJZ
Les Jenks	W9AKY
Charles Ferris	W9TCW
Bill Wood	WB9VYI
Jim Brooker	N9DBK
Van Elston	WA9FIO
John Kass	WA9IZY
Mike Tessmer	NØBSH
Nook Bentzen	K9EGO
Ray Wakeen	WA9HHM
Arby Boomer	N9HBQ
Dan McKenzie	WCØV
Art Osborn	WØJDC
Glen Whitlock	NØBBW
Herman Ludvik	W9HJV
Jule Kish	KA9UJL
Jim Burcum	K9LBX
Gary Webb	NI9V

### GUESTS PRESENT

Tom Gromak	KB9BIS
Jerome Grokowsky	WA9HCZ
Karl Simonson	



### PUTTING OUT THE PAPER - 1975

In 1975, Yellow Thunder Smoke Signals (now Badger State Smoke Signals) was just 6 years old - a mimeographed club newsletter. Each month, a crew assembled in K9EN's basement in Portage to run the paper off and collate it. Here, Bob Johnson, WB9-EIW, Pardeeville, cranks the mimeo, as Ken Ebnetter, K9EN, puts in slip sheets.



## Eau Claire Amateur Radio Club

Bob Fallis, W9BAR,  
Secretary  
1851 McKinley Road  
Eau Claire, WI 54703

### NEXT MEETING

The next meeting of the Eau Claire Amateur Radio Club will be held on Tuesday evening, February 14th, at 7 o'clock in the Parks and Recreation Building, 1300 First Avenue.

### MINUTES OF THE JANUARY MEETING

The meeting was called to order by Mike McAlister, WD9DLM, at 7:30. Twenty six members were present. The minutes of the December meeting were read and approved. The financial report was read and approved. The new officers for 1989 were introduced.

### BUSINESS REPORT

Don Alm, K9UXP, reported on the Christmas party. It was felt that attendance has been lower since we moved the date of the party from Tuesday night to Saturday. After a short discussion, it was decided that the 1989 Christmas party will

be held on Tuesday evening, December 12th.

Some members expressed a need for a general information tract to be printed, to be given to those persons interested in our club, or becoming new members. It would be a nice way to be certain that interested persons would get complete and accurate information.

Elections for our board of directors will be held at the February meeting. Layne Yost, KD9OB, can no longer serve. Anyone interested in being on the board should contact one of the officers of the club.

A program committee of three members was organized. The members are Jim Wiskow, KE9BC; Mike McAlister, KD9DLM; and Burt Spangler, WB9ZZI.

We are in need of a chairman for the July Hamfest. We are having our bulletins printed this month, and they will be available for distribution after the 1st of February. Call Don Alm if you can use some of them.

Dave Hanson, KA9ZVZ, will present our program for the February meeting. The subject will be Radio Control Systems.

Members are reminded that dues for 1989 are now payable.

Our committee will be giving examinations this Saturday. Hours are from 9 a.m. until noon. The dues are now \$4.75.

Lunch committee: K9UXP, KD9YO, and W9NNS.

The meeting was adjourned at 8:35.

Respectfully submitted:  
Bob Fallis, W9BAR, Secretary

## UPS Files 220-222 MHz Band Plan

Hoping to gain quick access to the 220-222 MHz band, United Parcel Service has filed an ambitious petition for rule making, designated as RM-6595 by the FCC. According to the December, 1988 issue of Federal Communications Tech-News, the petition is actually a combination of a suggested band plan and use prospectus for the disputed spectrum.

UPS proposes to divide 220-222 MHz into 20 blocks, each block consisting of 10 pairs of 5 KHz wide channels. Base stations would transmit from 220-221 MHz, and mobiles from 221-222 MHz. Four of these blocks would be reserved for national operation, and 2 blocks would be available for local use as single assignments of 10 contiguous channels. The remaining 14 blocks would be for five channel trunking groups, such as those used in the Specialized Mobile Radio Service or for single channel conventional assignments.

The nationwide channels and 35 of the conventional channels would be set aside for non voice/data only use for a two-year exclusive period, after which they would be available for voice or data modes. Digitized voice would not be accepted as a data mode, and UPS says it is concerned that without such restrictions the new spectrum would quickly become inundated

with voice communications. However, UPS does not propose to permit any single channel operations, and this position may well invite severe criticism in the area of spectrum economy.

In a related matter, it is reported that UPS; SEA, Inc.; Forest Industries Technologies; the Association of American Railroads and the Utilities Telecommunications Council are placing significant pressure on the FCC to try to force the Commission to dismiss the nearly 700 petitions for reconsideration filed by angry amateurs from around the country.

- From The Westlink Report

## ARRL Requests Oral Argument in Docket 87-14

The ARRL has formally requested the FCC to schedule oral argument before the FCC Commissioners concerning Docket 87-14, the FCC ruling which takes away 220-222 MHz from the Amateur Service.

In a strongly-worded request, the ARRL said that the Order in 87-14 "failed utterly and completely to take into account the inability of the Amateur Radio

Service, for technical reasons, to reaccommodate the thousands of displaced users" from 220-222 MHz to 222-225 MHz. The ARRL also said that the "devastating" loss of 220-222 MHz on the development of national data communications "has never been adequately conveyed to the Commissioners," and that the economic effect of this loss has also been "misunderstood" by the Commission.

The League's request quotes Public Law 100-594, which states that "government agencies shall take into account the valuable contributions made by amateur radio operators when considering actions affecting the Amateur Radio Service" and points out this legislation clearly warrants the Commission to consider the result of the reallocation on the Amateur Radio Service, the future of the amateur packet radio and voice repeater networks, and the effect of 87-14 on the ability of the Service to render emergency communications.

The ARRL request concluded: "Oral argument will permit the League to present, in concise fashion, the truth about the effect of the reallocation on the Service and factual data on the subject which has not thus far been adequately conveyed to the Commissioners." Section 1.423 of the Commission's rules provides for oral argument in rule making proceedings if the Commission determines it is warranted. It is not known at this time if and when the Commission will consider the request.

(From The ARRL Letter)

## NK200G Still Getting QSLs

United States Jubilee QSL cards are still arriving for Cudahy station NK-200G. Rick McGaver, normally using the call NK9G, made 350 contacts, N9AW operating NK200G worked 2,170 stations, and NX9H QSOed 450, for a total of 2,970 QSOs. About 600 QSOs were made on CW, the rest on SSB. Operated on behalf of the Greater Milwaukee DX Club, the trio worked 115 different DX countries, with about 2/3 of the QSOs being DX. One thousand NK200G QSL cards were sent to DX stations around the world to promote the jubilee, and in hopes of getting a few returns. Everyone continues to be amazed as the QSL cards pour in, enjoys the kind remarks written on the cards, and still savors some of the excitement of the contacts.

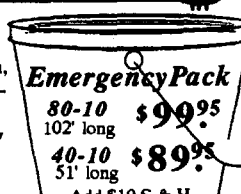
- Richard R. Regent, K9GDF

## QRV Antenna Emergency Packs

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# Guam — Where America's Day Begins and Micronesia Wakes Up!

By Nancy Vander Velde, AA6EA  
940 Arbolado Road  
Santa Barbara, CA 93103

## PART 4 IN A SERIES ABOUT MICRONESIA, FROM MICRONESIA

The islands of Micronesia are often described by such phrases as "sleepy", "slow-paced", or "lazy". Whether this is actually the case or not may depend upon one's point of view.

Some may argue that non-Westernized Islanders who can live entirely off the sea and land are very industrious in their own ways. But, regardless of one's definition of "sleepy", the moment Guam is encountered, it becomes obvious that, compared to the other places in Micronesia, Guam is wide awake!

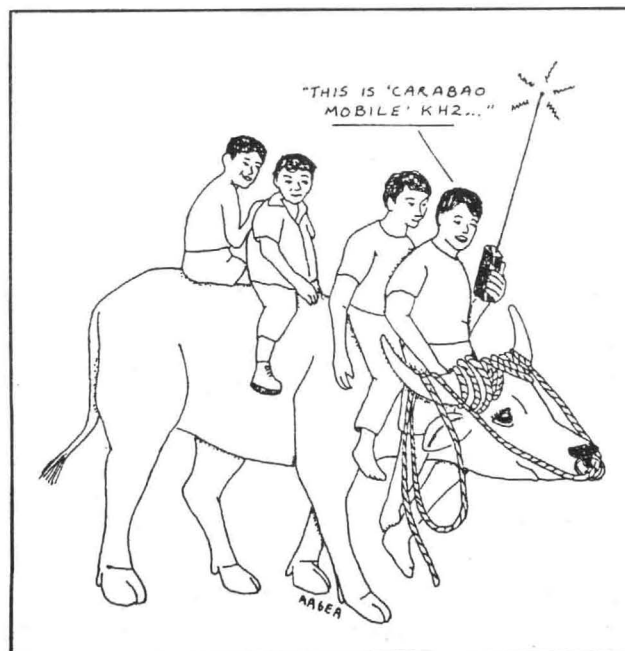
This "wide-eyed" aspect is no accident. Guam is historically and politically different from its neighbors. The rousing started when Ferdinand Magellan sailed into what is figured to be Umatac Bay on March 6, 1521. Soon afterward, Guam became an important stop-over port for the Spanish galleons commuting between Alcapulco and Manila.

Following centuries of Spanish control and westernization, the United States took Guam as part of its spoils from the Spanish - American War in 1898. America's grip was temporarily lost during World War II to the Japanese, but was regained in 1944 through bloody invasion tactics. Thereafter, the United States has developed Guam's military potential, and thus, large land areas are now devoted to the purpose of never again losing this strategic island.

Overall development has naturally gone right along with Guam's military development. Therefore, modern sports cars whiz down six-lane thoroughfares, and past many of the fast-food eating establishments that one would expect to see in the States. And, although the Guamanians themselves speak a Spanishese Micronesian tongue called "Chamorro", English is spoken everywhere.

This fast-paced development also is what makes Guam so alert in the realm of electronic communication. Two phone carriers service the population of 100,000, providing not only quality, but also prices which are competitive with the United States. A half-dozen commercial radio stations beam forth various sorts of broadcasts, and there is a direct-broadcast television company and a cable one. The high level of electronic know-how is seen in the NASA Tracking Station, where a gigantic dish takes part in keeping in contact with orbiting spaceships.

And, Guam is also most "awake" as far as amateur radio operators. While the majority of hams are military personnel, a fair number of locals also participate in this hobby. Only a few of these are true



Micronesians, but between these and the Americans and Japanese, there are enough to have an organized club that meets on the first Tuesday of each month.

Because of being part of America, licensing for KH and KH2 stations is under the FCC, with all of the standard forms and tests. Study material can be purchased locally. The tests are given to up-and-coming hams every three months, so getting a license on Guam is about as easy as anyone could want.

The saying goes that "Guam is where America's day begins," and this is due to being the first significant U.S. soil west of the International Date Line. Logically, when day begins, things start to wake up, and for a Micronesian island, Guam is really awake! It is to the point that many people contend that Guam is just like any other place in the United States, and that it has lost its island characteristics and charm. While it is not hard to understand why some could feel this way when they see low-riding youths pull in for lunch at the "golden arches", there are lots of aspects of Guam that make it delightfully distinct. Where else in the United States can a bunch of kids climb on the family's water buffalo (more often referred to on Guam as a "carabao"), and take it for a ride? If some of these kids were to get at least a Technician class license and carry a hand-held two-meter radio with them - now, that would really be a unique mobile setup!

Hafa Adai ya sitenta-i-tres

(What's up?/Hello and 73)

## Frank Guth, W9BCC, Honored

Frank Guth, W9BCC, of Stevens Point, WI, was honored at an appreciation dinner on Friday, October 21, 1988 at the Blue Top Supper Club in Stevens Point. The event was a complete surprise to Frank, who, in past, gave surprise parties. The dinner was given in Frank's honor to recognize his many years of dedication to Amateur Radio, and all he did for those who needed a helping hand along the way. He was gently "roasted" by several of his Ham Radio friends, recalling some of his deeds - and "misdeeds".

During his many years as a Ham, Frank was the editor and one of the originators of the newspaper of the Central Wisconsin Radio Amateurs, "Watts Snoo", which has been published for over 27 years.

He has held every officer's position in the club since the club began around 1947. He has, for as long as anyone can remember, taken time from his busy schedule to instruct and assist people in Amateur Radio.

Wisconsin Special Olympics presented Frank with a jacket and a certificate of appreciation for his years of work with that organization.

The highlight of the evening was the presentation of the plaque to Frank by club president Mike Pagel, KA9LAQ (see cover photo). The plaque's inscription reads "For over 40 years of dedicated service to the hobby of Amateur Radio".

We salute you, Frank!

- Story and photos by  
Wayne Johnson, K9MIF  
Plover, WI 54467



One of the "roasters" at W9BCC's surprise dinner was the Mayor of New Holstein, Denny Rybicki, K9LGU, on the left above; that's "roastee" W9BCC on the right.

In his talk about Frank's Ham Radio career, Denny said, in part: "...it didn't surprise me at all to learn that when I sent my mom a radiogram for her birthday, Frank sang it to her over the phone."

Frank worked at Northwest Liquor, and "it was always especially appropriate for us to run our Field Day CW station from a truck that had a big sign on the side saying 'Jim Beam.'"

Over 40-plus years - W9BCC Diddit!



**JANUARY 4, 1983**

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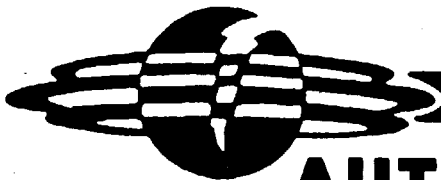
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## Manufacturers Donate Equipment

# Amateurs Help Armenian Earthquake Relief Efforts

"Glasnost" has taken on a new meaning, as Hams from around the world have come to the aid of victims in earthquake-ravaged Soviet Armenia.

The quake that hit Armenia and parts of Turkey in November killed more than 50,000. Another quarter of a million were injured, and many more were left homeless by the disaster. With almost every means of communications cut, the Soviet government turned to their own Hams and those from around the world to provide the vital first link in bringing order from chaos.

In the United States, the first organized response came from Glen Baxter's International Amateur Radio Network. The IARN went to full alert on Thursday, December 1, and within 72 hours it had sliced through the normal bureaucratic red tape and claimed to have set up the temporary third party agreement between the US and the USSR.

According to Baxter, "IARN was directly responsible for negotiating the third party agreement on both sides." At 1700 UTC on Sunday, December 11, UB5WE contacted the IARN on 14.275 MHz. Approximately 35 minutes later, W1ZLG, who is both an IARN member and FCC Volunteer Auxiliary in Boston, Massachusetts, placed a call to the Washington, DC FCC watch officer, and after explaining the situation, the net was granted a temporary third party authorization at 1741 UTC. This information was then relayed back to UB5WE.

On Monday, December 12, a second and formal request for a third party agreement was passed via other channels through UA3CR to the ARRL. It, in turn, dispatched Washington Liaison Perry Williams, W1UED, to the State Department, which then requested the FCC to issue a blanket temporary third party agreement with the Soviet Union for the singular purpose of aiding in earthquake relief. About midday, the FCC acted to issue the order in accordance with a similar statement emanating from the Soviet Union.

Baxter says that Kenwood and AEA donated complete HF stations, and when this was written, IARN was in the final moments of negotiations to ship the gear, along with two IARN operators, to establish a digital and voice link between Yerevan and Moscow. And, IARN members were busy handling health and welfare traffic into and out of the disaster area.

Here in the United States, a major show of support was put together. The ARRL, acting on the request of UA3CR, put together the most necessary communications aid package of all: portable, battery-operated packet radio stations. To properly handle the massive amount of traffic, a high speed data link between

Yerevan and Moscow was essential. As no such link existed, and the equipment to establish it was not immediately available in the USSR, the League began soliciting the needed materials to assemble up to 50 battery powered portable packet radio stations - a monumental task with less than a week to complete.

The first donations came from Yaesu USA, which pledged a half dozen FT-23 hand-helds, along with several FT-747 low band rigs. Icom added a half dozen of its 2 meter hand-held radios. AEA surprised everyone with its offer to supply up to 50 PK-22 TNCs and extended range gain antennas on a one-for-one basis with the complete stations donated and assembled. Tandy Corporation provided the first six Radio Shack 102 laptop computers. Combined (with the radio equipment supplied), that provided for an initial shipment of six complete emergency packet radio stations. The equipment donated by Tandy, Yaesu USA and Advanced Electronic Applications was integrated into complete packet stations using the facilities of the ARRL Laboratory in Newington, CT.

Shipment of the gear was handled by the ARRL. Mike Riley, KX1B, of the Newington ARRL Headquarters staff, was appointed as the action officer for the project. The first complete stations were assembled over the weekend of December 17-18. The donated equipment was airlifted to Moscow on December 22, and the first of the stations was activated less than 24 hours later. The gear is being used to supplement data communications between the devastated areas of Soviet Armenia and the rest of the world.

The USSR has designated three frequencies for handling earthquake-related Health and Welfare traffic: 3.649, 7.040, and 14.173 MHz. Traffic appears to be mostly in Russian and other languages than English. There are English-speaking operators available, but operators should not attempt to break in unless safety-of-life communications are involved. English language traffic can be found on Glen Baxter's IARN at 14.275.

The San Francisco/Moscow Teleport, Inc. and former AMSAT-NA president Vern "Rip" Riportella, WA2LQQ, were instrumental in this massive effort. Also deserving of public recognition in this special amateur radio "mission of the heart" include "Chip" Margelli, K7JA, of Yaesu USA, Ed Judge and Bob Miller of Tandy (Radio Shack), Mike Forsythe of AEA, Inc., and Bill Pasternak, WA6ITF, of Westlink Report and the Amateur Radio Newslite.

- From The Westlink Report  
©1988 Poco Press

## The Word Gets Out

From useful DX bulletins to critical Armenian earthquake relief reports, information is rapidly disseminated by Official Bulletin Stations (OBS) across the country.

Wisconsin has nine OBS operators: AE9H, KA9KLZ, WB9NRK, WA9POV, W9IAL, K9ZZ, NQ9X, K9EP, and WB9HME. This network of volunteers provides a vital communications link for informing the amateur community of the latest developments in Amateur Radio. If you check into a 75-meter traffic net or a two-meter repeater net, you'll sometimes get a bonus of hearing K9EP or KA9KLZ read an official bulletin. K9ZZ of Baraboo prints bulletins in the Badger State Smoke Signals, reads them at club meetings and on two meters.

A typical OBS copies bulletins directly off the air from W1AW on voice, CW, RTTY or ASCII, and retransmits them locally for the benefit of amateurs in their particular coverage area, many of whom may not be equipped to receive bulletins directly from W1AW. Some OBS include announcements of club activities, particulars of ham events, and local, section and regional amateur news.

Packet radio bulletin boards are read by many amateurs who aren't able to check regularly into nets because of their work schedules or equipment limitations. Carl Plotz, WB9JSW, of Oshkosh, Bulletin Manager for Wisconsin, says, "Packet radio has changed the nature of the bulletin by making information available to packeteers at any time of the day through the use of Packet Bulletin Board Stations (PBBS). Some packet operators can get ham news from the PBBS even when direct reception of W1AW, the League Headquarters bulletin station, is spotty."

Madison OBS WB9HME notes, "Most, if not all, ARRL bulletins are being forwarded into Wisconsin via W8PH in Dayton, Ohio, often when I'm not able to get the 1600 UTC transmission from W1AW. By the time of the 2300 UTC transmission, the bulletins have been forwarded via packet to many Wisconsin bulletin boards."

OBS candidates must be an ARRL member and have a Novice class license or higher. Retransmission of bulletins must be made at least once per week to maintain appointment. OBS appointees should send a monthly activity report to the Bulletin Manager. If you are interested in getting your certificate as an Official Bulletin Station, please contact Carl Plotz, WB9JSW, Bulletin Manager, 4429 Sherman Road, Oshkosh, WI 54901.

- Richard R. Regent, K9GDF  
Section Manager WI  
5003 South 26th St.  
Milwaukee, WI 53221



## Wisconsin QSO Party March 19

The 1989 Wisconsin QSO Party, sponsored by the West Allis Radio Amateur Club, will be held from 1800Z March 19 (12 noon CST) until 0100Z March 20 (7:00 p.m. CST). Rules and an official entry form may be obtained from the West Allis Radio Amateur Club, P.O. Box 1072, Milwaukee, WI 53201; the rules and an official entry form, which also may be used, will be published next month here in Badger State Smoke Signals. A new 100 point bonus will be given to all stations using the official entry form. Activity is always at a high level for this 7-hour contest, providing lots of fun for the seasoned contest operator and casual operator alike; Badger State Smoke Signals encourages your participation!

- Editor

## Badger State Smoke Signals Club Deal

Badger State Smoke Signals can serve your club's members as your club's newspaper, and the cost to your club is as low as \$4.80 per member per year - that's as low as 40 cents per member per month! Your club's minutes are published for you, as well as other items of interest - including photos - you submit. And, clubs outside Wisconsin are welcome, too! For full information and requirements, contact Ken Ebner, K9EN, 822 Wauona Trail, Portage, WI 53901, or call Ken at (608) 742-3560.

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FOR SALE: Doctor DX with cartridge and warranty card: \$45.00. Also Commodore 1525 printer with two-year supply of ribbons: \$50.00. Irvin Schroeder, W9VCL, 670 Riverview Drive, Plymouth, WI 53073. (414) 892-2606.

:-----:

FOR SALE: Drake 'B' Twins - T4XB/R4B/-MS4/AC4, one of the later models, freshly

aligned by Drake in 9/88, with E-Tek FR-4 digital readout. Package deal only for \$495. Also Apple II+ 64K computer w/2 disk drives and monitor: \$350. K9APW, 7552 Pioneer Pl., Verona, WI. (608) 833-8335.

:-----:

WANTED: SSB CB rig for conversion to 10 meters, or one already converted. Jim Romelfanger, K9ZZ, 412 1/2 Ash Street, Baraboo, WI 53913. 608/356-4249.

:-----:

WANT ADS IN SELL, SWAP, BUY ARE FREE. Send your listing to Ken Ebner, K9EN, 822 Wauona Trail, Route 1, Portage WI 53901.

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# Correspondence

## From Our Readers

### ARE WE LOSING TEN METERS?

To the editor:

A few weeks ago, Uniden introduced the HR-2510, a dynamite little radio for ten meters, at a price which even a Novice on a limited budget could afford. It seemed like amateur radio was finally taking steps forward to encourage others into the world of amateur radio. Not quite so.

The introduction of this radio in the market has caused a number of problems, not with the equipment, but with the buyer and operator. Across the country, truck stops and CB shops are selling these radios over the counter to anyone who wants one. These radios are clearly labeled "For 10 meter amateur radio use only", and the instruction book states that the operator must have an amateur license, but that does not seem to be good enough.

When tuning in the 28.100 MHz frequency, in the AM mode, you can still hear (illegal) phone operation, such as, "Ya, Joe, the scale is open, and I ain't seen no Smokeys since the state line; hammer down, good buddy." I think we have a major problem that is right now in its early stages.

My suggestion (to help stop illegal operation on amateur radio frequencies by unlicensed operators) is a simple one: Ask Congress to pass a law requiring a copy of an amateur radio license before an individual can buy any amateur transmitter.

I am a retailer in electronics myself. The extra paperwork will take only a few short moments, which is a small price to pay to insure the preservation of our amateur frequencies. It would also help to stop operations such as drug running, smuggling, and organized theft; some of those engaged in such activities use amateur equipment to have reliable communications.

As of this time, I have been unable to approach the ARRL about this problem, but, hopefully, enough people will voice their opinions about this matter, and help pursue it.

220 MHz was first; it seems that 10 meters is second. What will be next?

73,

Scott R. Cole, KB9AMM  
Green Bay, WI

Editor's note: Requiring point-of-sale proof of holding a valid amateur radio license has been bandied about for some time, but it has never really moved beyond the "bandying" point. Does anyone have other information or thoughts on this subject? We'd be glad to see 'em. Also, a related topic is the subject of "Kap's Kollumn" on this page.

- Ed.

# Kap's Kollumn

We all know how the FCC makes and enforces rules for consumer products in the USA. In fact, if a product does not meet the required specifications, the FCC will stop it from being offered for sale. In fact, in some recent cases in which distributors were showing new models of computers which did not have FCC certification for Class B devices, the units on display were confiscated and the sales booths were shut down. In other cases, the FCC raided the manufacturers of CB amplifiers; not only did they confiscate the devices, but the FCC destroyed all of the inventory as well.

In the amateur radio field, we have seen ads in the magazines for very-high-power HF and VHF amplifiers, featuring a disclaimer that these super-power units were, in fact, made by the company, but were being offered only for export. That's right; if you live out of the country, you can buy these amplifiers, and other illegal electronic devices, at will. Those friendly folks in the far east make hundreds of electronic devices that are illegal, not only here, but in other countries as well.

With all this in mind, I was interested in the ads being run in the newspapers in Munich, Germany. The ad was for a wireless telephone product and, there in the body of the ad, was the disclaimer, "For Export Only".

I was in the department store the next day, and I went to the electronics department to see the product. Just as was indicated in the ad, next to the product display was a large sign with the words, "FOR EXPORT ONLY".

A week later, while speaking to a local radio amateur, I asked about the number of items being offered under the "not for export" label. "Oh, it is very simple", I was told. "The law, in fact, does prohibit such items from being used in the

Federal Republic of Germany. The law does provide penalties for use of these items within the country. The law does not allow the dealer to sell these items for local use."

"Well, then," I stammered, "why are these things being offered for sale on the open market?" Again I was told it is quite simple. You see, the dealer knows the product cannot be sold for use in Germany; he also knows that there are fines and other penalties if he sells them. And, he knows that the public would be in violation of the law if they buy the product for use in Germany. So, the answer to all the problems with the law is, in fact, the disclaimer in the ads, and the sign at the point of sale advising that the product is for export only. The dealer is absolved from responsibility, since he is offering and selling for export only. The customer who buys the item with the label showing it to be for export only is buying without regard to the label since, after all, it was advertised in the newspaper, and the store does have it for sale on the counter.

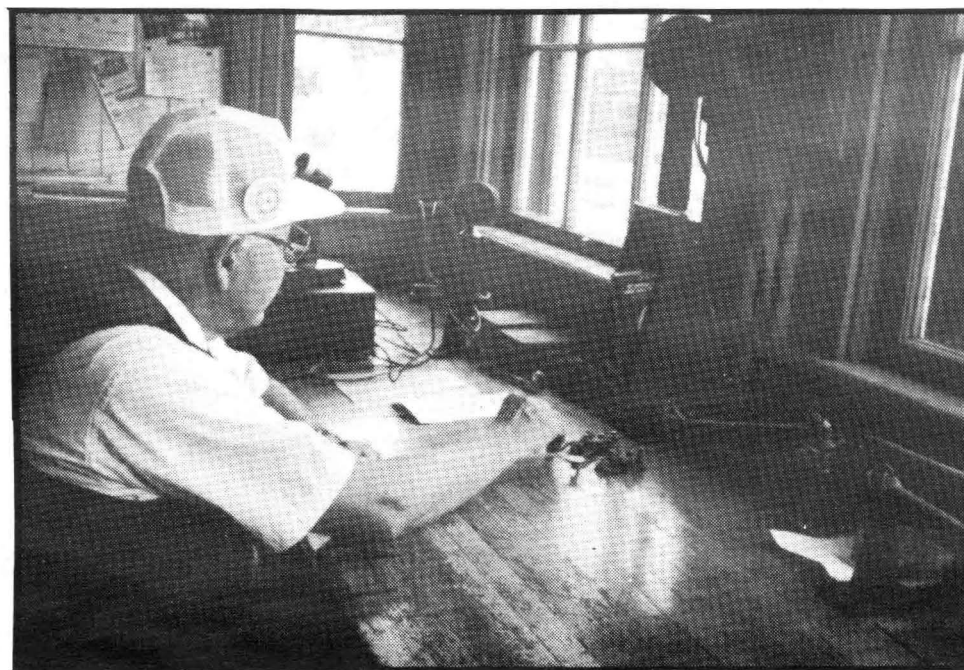
The item is purchased and taken home to be used as a normal product. Everyone is happy. The importer sells all he can get to the stores, the stores sell to the customers, and everyone makes money.

The idea is, if it is illegal, stick a FOR EXPORT ONLY label on the package; then everyone has satisfied the law. This is the reason that such large amounts of illegal electronics is offered for sale and sold in Germany.

Do you think we can convince the FCC in Washington to follow the lead of the German government, and allow us to buy those ultra-high-power amplifiers?

I don't think so.

- Jordan Kaplan, W9QKE  
Chicago, IL



### LOOKING THE PART

When the Morse Telegraph Club demonstrated its art at the Mid-Continent Railroad Museum last Labor Day, Sid Vaughn, NØDJD, of Mt. Vernon, Iowa, dressed for his part as station agent. And, among those firing engine #1385 last summer was Bob Johnson, WB9EIW, of Par-deeville WI.



## Jerry Wallen, K9EP, Appointed Section Traffic Manager

Jerry Wallen, K9EP, of Beloit, WI, has been appointed Section Traffic Manager for the Wisconsin Section of the American Radio Relay League. Jerry is well qualified, and brings many years of traffic and administrative experience to the post. Gene Santoski, K9UTQ, of Wisconsin Rapids, resigned as STM, after many years of capably handling the STM duties. Gene's many other duties, plus his long tenure as STM, led to his decision to turn the reins over to a new STM. Here are the Wisconsin Section ARRL Leadership Officials.

### SECTION MANAGER

Richard R. Regent, K9GDF  
5003 South 26th Street  
Milwaukee, WI 53221  
(414) 282-0312

### SECTION EMERGENCY COORDINATOR

Fred R. Wendt, W9ZAG  
W128 S6473 Berger Lane  
Muskego, WI 53150  
(414) 425-6862

### SECTION TRAFFIC MANAGER

Gerald C. Wallen, K9EP  
2007 Sunrise Court  
Beloit, WI 53511  
(608) 362-7202

### OFFICIAL OBSERVER COORDINATOR

Arthur R. Dunham, NC9G  
656 7th Avenue South  
Park Falls, WI 54552  
(715) 762-4948

### BULLETIN MANAGER

Carl H. Plotz, Jr., WB9JSW  
4429 Sherman Road  
Oshkosh, WI 54901  
(414) 233-2797

### PUBLIC INFORMATION OFFICER

Jim Romelfanger, K9ZZ  
412 1/2 Ash Street  
Baraboo, WI 53913  
(608) 356-4249

### AFFILIATED CLUB COORDINATOR

Greg A. Miller, KA9FOZ  
2522 Wood Street  
La Crosse, WI 54601  
(608) 781-4325

### TECHNICAL COORDINATOR

Richard R. Regent, K9GDF  
5003 South 26th Street  
Milwaukee, WI 53221  
(414) 282-0312

### STATE GOVERNMENT LIAISON

Vacant

### ASSISTANT SECTION MANAGER

Vacant

If you are interested in filling one of the vacant Section leadership positions, contact Richard Regent, K9GDF, for information regarding duties and requirements. All are appointive positions, except Section Manager, which is an elected post. Appointments are made by the Section Manager.

And, if you'd like to make a late New Year's resolution, here's a suggestion for you: Why not join the ARRL Field Organization! Take a moment right now to write to phone your Section Manager (Rich Regent, K9GDF; see the list above) and apply for appointment as an Official Relay Station, Official Emergency Station, Assistant Technical Coordinator, Official Observer, Official Bulletin Station, or Public Information Assistant. Give something back to Amateur Radio, help your fellow radio amateurs, and have fun - all at the same time!

And, to those of you who have toiled in the vineyards as League volunteers this past year - a hearty thanks for a job well done!

- Part of the above from The ARRL Letter, published by the American Radio Relay League



## John's Book Shelf

By John W. Frank, WB9TQG  
P. O. Box 5113  
Madison, WI 53705

### NOVICE ANTENNA NOTEBOOK

Don't let the title dissuade you from at least looking at this book. The author, Doug DeMaw, W1FB, has written a very comprehensive and down to earth guide to basic antenna theory without resorting to heavy theoretical treatments of antennas.

The inspiration for this book review came from a QSO I heard on the air some time ago. An Extra Class old timer (whose call I won't divulge) was telling some new hams about antenna traps and loading coils. Although he probably had good intentions, I hate to think what would happen if some of his theories were put into practice. Unfortunately, misinformation does spread among hobbyists.

The Novice Antenna Notebook presents the facts about different types of antennas in clear and simple terms. The writing style is almost conversational. The reader is left with the impression that much of the information in this book is the result of the author's experience, rather than being a restatement of someone else's theory. Separate chapters are devoted to dipoles, feedlines, vertical antennas, loops and wire antennas, and beams. Most chapters end with a glossary of terms used in that chapter.

The book concludes with illustrated instructions for putting connectors on coaxial cable.

Who would I recommend this book to? Anyone and everyone. There is so much mythology and misunderstanding surrounding antennas that just about anyone could learn something from this book. The author does a very good job of refuting some of the myths, while reinforcing the facts.

Novice Antenna Notebook, by Doug DeMaw, W1FB. Published by the ARRL; 124 pages: \$8.00.

(Editor's note: "John's Junk Box" and "Repeater Profiles" will be back soon - stay tuned to BSSS!)

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# Miss Pinchbottom Strikes Again

By Ed Rice, W9NGP  
W126 Land Road  
Oconomowoc, WI 53066

(Author's note: In this article, we will look at some short cuts for dealing with resistance and capacitance voltage dividers.)

I still remember Miss Pinchbottom in algebra class fussing over the proper way to use proportions. "A proportion is two equal fractions like  $\frac{2}{3} = \frac{4}{6}$ ," she used to say. And she would go on: "Notice that the cross-products are equal."

$$\frac{2}{3} = \frac{4}{6}$$

$$3 \times 4 = 2 \times 6$$

At that time, I didn't really care, for I was thinking about the DX that might be heard on 20 meters if I could get home in time. But there was one of her rules about proportions which proved useful in solving electronic circuit problems. It went like this: "Any one of the four numbers in the cross-product equation can be obtained by dividing the other side of the equation by the coefficient of the desired number," like this:

$$3 = \frac{6 \times 2}{4}$$

$$6 = \frac{3 \times 4}{2}$$

$$4 = \frac{6 \times 2}{3}$$

$$2 = \frac{3 \times 4}{6}$$

Well, enough of Miss Pinchbottom's trivialities. Try the example shown in fig. 1, and you will see what all this has to do with the voltage divider problems given in the license manuals. Find  $V_1$  in the circuit below:

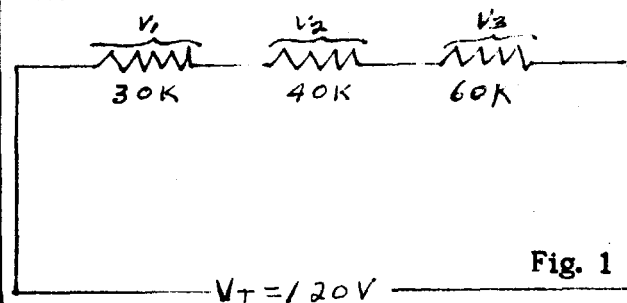


Fig. 1

Did you solve this by first finding the total resistance, and then dividing 120 by this total to get the current, and finally multiplying 30K by the current to get  $V_1$ ?

Well, that is the Pinchbottom method. She did everything the hard way. The only calculation you need is to divide 360 by 13. Here's how it works:

A rule for series circuits is: "The ratio of any two voltages is equal to the ratio of the corresponding resistances."

$$\frac{V_1}{V_T} = \frac{R_1}{R_T}$$

This proportion says that the ratio of  $V_1$  to the total voltage equals the ratio of  $R_1$  to the total resistance. Multiplying to get the cross-products gives

$$V_1 R_T = V_T R_1$$

From which, according to Miss P., we get:

$$V_1 = \frac{V_T R_1}{R_T}$$

Now, see how simply the circuit can be solved:

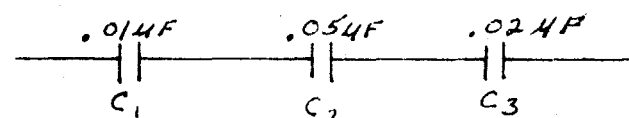
$$V_1 = \frac{(120)(30)}{130} = \frac{360}{13} = 27.7V$$

Notice that I omitted the K's on the resistor values. This is legal if all resistor values are in K-ohms. Miss P. would have insisted that all the powers of ten be accounted for in writing. But, she never had to take an FCC exam.

## CAPACITOR VOLTAGE DIVIDERS

Recently, I saw an example of how to compute the resulting capacitance when three capacitors are connected in series. Remember that capacitances in series are treated like resistances in parallel. The example went like this:

In Fig. 2 below, find the equivalent capacitance:



$$C_T = \frac{1}{\frac{1}{C_1} + \frac{1}{C_2} + \frac{1}{C_3}}$$

$$C_T = \frac{1}{\frac{1}{.01 \times 10^{-6}} + \frac{1}{.05 \times 10^{-6}} + \frac{1}{.02 \times 10^{-6}}}$$

$$C_T = \frac{1}{\frac{1}{1 \times 10^{-8}} + \frac{1}{5 \times 10^{-8}} + \frac{1}{2 \times 10^{-8}}} = \frac{1}{\frac{1}{1} + \frac{1}{5} + \frac{1}{2}} = \frac{1}{1.5} = .667 \times 10^{-8} = .667 \text{ nF}$$

Fig. 2

If Miss Pinchbottom had given us this one, I am sure I would not have made it home for that 20 meter DX. We will not finish this because it is unnecessarily complicated, and there is too much chance for error.

To solve this the easy way, omit all the powers on ten, since all values are in mFd, and use the reciprocal key on your calculator. That's the key marked 1/X.

Use the electronic technician's version of the formula:

$$\frac{1}{C_1} + \frac{1}{C_2} + \frac{1}{C_3} = \frac{1}{C_T}$$

and press the following keys on your calculator:

$$.01 \frac{1}{X} + .05 \frac{1}{X} + .02 \frac{1}{X} = \frac{1}{X}$$

The display now reads .00588, and adding the label which we omitted gives .00588 mFd for the final result.

An interesting thing about capacitors in series is that, while the total capacitance is calculated like resistances in parallel, the voltages across the capacitors add up like a series circuit. That is, the total voltage is equal to the sum of the voltages across each capacitor.

But, unlike resistors, the largest capacitor will have the smallest voltage across it. So, we use an inverse proportion for capacitor voltage dividers. Let's try the example in Fig. 3.

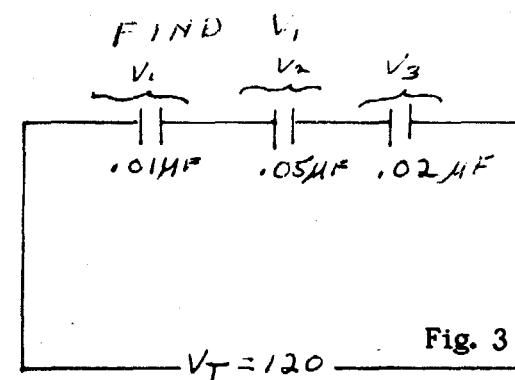


Fig. 3

The ratio of any two voltages is equal to the inverse ratio of the corresponding capacitances.

$$\frac{V_1}{V_T} = \frac{C_T}{C_1}$$

Note that the fraction on the right side is inverted (compared to the proportion we used for the resistor voltage divider).

We already have the value  $C_T = .00588$  mFd so, according to Pinchbottom's rule:

$$V_1 = \frac{V_T C_T}{C_1} = \frac{(120)(.00588)}{.01} = 7.056V$$

(Please turn to page 15.)



## New Products

### PRODUCT REVIEW: THE ICOM IC-2GAT HT

First, I must confess that my wife convinced me to buy it. It is rugged, and she knows how rough I am on rigs. Also, I am probably one of the few amateurs to pay almost double for an HT, because I use it to monitor remote broadcast frequencies; it covers up to 173 MHz, instead of 163 MHz like some HTs. It would also be handy for those in MARS or CAP, as it transmits from 140 to 150 MHz, and it has an S-meter for transmitter hunting. It will scan either the 20 memories (unless tagged with a skip), or any selected part of the band through the VFO mode.

I use it as a mobile when I switch between the work vehicle and my own. There, the 7 watts on high power comes in handy, but it wouldn't be fun for long without the ability to charge the 250 mA/Hr battery from the car's electrical system.

This HT is easier to use in the car, because it doesn't have keyboard entry. Frequencies are selected with decade rocker switches. You can set the VFO or memory channels this way, or you can write from VFO to any memory and vice-versa, or just scan the VFO to your desired frequency.

Selecting memories is done by pressing the brown "Scan" key when in memory mode. A button on top toggles between VFO or memory mode; another button writes what is on the display to the other mode.

The "Function" key next to the transmit button changes the functions of the top switches to control modes of operation. When "Function" is pressed with the up/down scan switch, scanning continues when you release them until the squelch opens. Then scanning stops for a minute so you can listen, then continues until another carrier is found.

"Function" with "MHz Up" sets the radio to duplex mode, while "Function" with "MHz Down" sets PL on or off. "Function" with "VFO/Memory" selects a mode menu, from which you can select PL tone frequency, scan band limits, power save option (a "Sleep" mode that reduces battery drain but would interrupt packet reception), 5, 10, 15, 20, or 25 KHz steps, and repeater offset. Those who like to scroll through menus on a computer will love this rig!

The front panel has the Touch-Tone™ pad, a call button to select your favorite frequency without looking at the switches on top, high power (7 watts) or low power (1 watt), and "Monitor," which opens the squelch and lets you listen to your transmit frequency (repeater input). Pressing "Function" plus "Monitor" turns on or off a beep sound made when keys are pressed. "Function" plus "h/1" locks the top panel's

switch settings. There is a button to light the liquid crystal display, and there is a standard speaker-mike jack. Remember, this radio is the same size as the IC-2AT!

ICOM IC-2AT batteries will fit the IC-2GAT, but power is reduced to 3.5 watts.

The BP-70 battery pack has an internal relay circuit which permits charging from a vehicle's electrical system; the relay switches some of the pack's cells to a parallel configuration, and drops the pack's voltage from 13.5 to 8.5 volts. This relay also protects an IC-2AT, as W9HSY found out at the Country Kitchen one day. But, I also discovered that the relay is the weak link in the whole rig. Ten days after the warranty ran out, I found the rig would not turn on unless the charger was plugged in. At the 7-watt power level, the rig draws one amp; one amp is exactly the rating of the relay, and it failed. Radio Shack has a suitable pin-compatible replacement relay; the part number is 275-241.

When working on the battery pack, DISCONNECT THE WIRES from the circuit board! Leaving it connected is like working on a bomb with the fuse armed. Be sure to mark the wires when you disconnect the circuit board from the battery pack. Better yet, get one of the BP-6 or BP-7 replacements, so you can talk for more than 5 or 10 minutes on high power.

I had considered changing some jumpers inside the radio to extend the transmit frequency range, but the schematic suggests that it is already at maximum. And, I decided to not pursue it any further anyway after showing the radio to a Chicago FCC Field Inspector during a broadcasters' seminar in Madison. He saw a possibility for abuse in the new digitally-tuned radios, and he thought their use should be restricted. In any case, it's not type-accepted for any use other than amateur radio, and it could be illegal if tampered with. Besides, the manual says the radio might not work after you open the case.

To sum it up, I finally don't feel so foolish for spending so much for something so little.

- Reviewed by Allan Johnson,  
WB9FMU, 220 E. Mill St.,  
Beaver Dam, WI 53916

### NEXTDAY QSL CARDS

AntennasWest has initiated a unique fast-turnaround QSL service called NextDay QSLs. With a simple telephone call, a ham in the United States can order QSLs for next-day shipment and second day delivery.

This unusual service is made possible by means of a unique integrated process designed specifically for fast turnaround of individual orders. Every step, from layout to plate making to printing to cutting and packaging, is under one roof where it can be monitored at all times.

Finished cards speed to their destination by priority mail, expedited by a 24-

hour regional postal sorting and dispatching center. Next Day Air delivery is also available.

NextDay QSL designs are classic and cleanly proportioned versions of the DXCC standard card layout. The typeface is sharp, and each call sign is professionally kerned for easy recognition and artistic balance. All cards are printed in two colors on a rainbow assortment of pastel card stock selected for eye appeal and easy writing quality.

The most popular design is reproduced here. Special formats have been created for prominent display of club insignia.

Thule, Greenland

**OX/N1FBY**

Confirms ☐ Two-Way Radio Contact ☐ Reception Report

Name	Date	UTC	Time	Mode	Power	Call
Equipment		Antenna				

Alan E. Frank, 2337 West Forth Street, Williamsport, PA 17701, USA

To order NextDay QSLs, call (801) 373-8425, or write to AntennasWest, P.O. Box 50062, Provo, UT 84605. NextDay QSLs may also be ordered through amateur radio stores.

Ham clubs which display sample cards and make them available to their members receive donations and other benefits.

- AntennasWest news release

## Miss Pinch

(Continued from page 14)

$$120 \times .588 = 70.56V$$

For practice, solve for  $V_2$  and  $V_3$ . Then, check your results by adding the three voltages to get 120 volts.

If your voltages don't add up, refer to another of Miss Pinchbottom's rules: "The amount of work required for any calculation is inversely proportional to the skill of the person doing the calculations."

When reprinting items from BSSS, credit is required. See masthead on page 2.

### Half-Square QRV-DX Monobanders

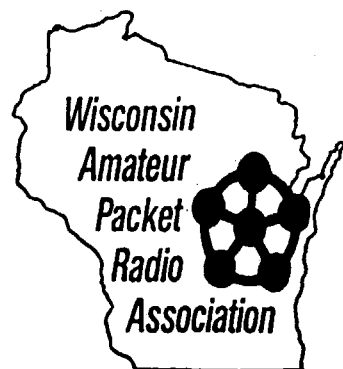
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# THE WISCONSIN PACKETEER

Wisconsin Amateur Packet Radio Association (WAPR)

c/o CARL SCHUMACHER, N9BYS  
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BURLINGTON, WI 53106

Steve Loeffler, WB9ZRE, Editor, 123 W. Oshkosh St., Ripon, WI 54971

## WAPR BOARD MEETING MINUTES December 30, 1988

Minutes of the meeting of the Board of Directors of the Wisconsin Amateur Packet Radio Association held on this date. The meeting was called to order at 7:45 pm by Chairman Dan Bolander, WB9TYT. All but one board member was present.

Treasurer Carl Schumacher, N9BYS, reported a balance of \$698.14 with 44 current paid members. The treasurer was asked to mail a meeting notice postcard prior to the January 14, 1989 regular meeting to be held at the WARAC Swapfest at Waukesha.

The dues increase proposed at the last regular meeting was briefly discussed. The proposal will be presented at the next regular meeting for a vote of the membership.

The proposed guidelines for WAPR assistance in financing new or improved network elements in the State was discussed. Changes and additions were made and the board voted unanimously on the following guidelines which will be presented to the membership at the next regular meeting.

### WAPR NETWORK REIMBURSEMENT FUND

1. The purpose of the WAPR Network Reimbursement Fund is to assist members of WAPR in expanding and maintaining the Packet Radio Network within Wisconsin.
2. Network elements should be funded locally, whenever possible.
3. Requests for assistance in establishing or improving an element of the network will be considered by the board of Directors of WAPR on a case by case basis.
4. The total amount of funds requested shall not exceed 50% of the proposed expenditure.
5. When a member has received funds from WAPR, the funded network element must be a 24 hour operation with no individual or group of individuals excluded from it's use. The operation must enhance the State packet network and operate within the established and accepted parameters of the network.
6. Members requesting assistance from the fund must submit a signed application containing the following information:
  - a. Full name, call, and address of applicant.
  - b. Full name and call of site trustee.
  - c. Exact location of site.
  - d. Frequencies in use at site now.
  - e. Coverage of site now.
  - f. Coverage increase expected.
  - g. List of equipment now at site.
  - h. List of new frequencies, if any.
  - i. List & cost of equipment to be purchased.

j. Amount of funds requested & for what purpose.

7. The applicant must agree that equipment or material purchased with WAPR funds must remain in operation, within the requirements and constraints of this agreement, for at least five years. If it is removed from operation in less than five years, the amount of WAPR's investment must be returned to WAPR at the following rate: less than one year, 100%; 1-2 years, 80%; 2-3 years, 60%; 3-4 years, 40%; 4-5 years 20%.

8. The application must be submitted to the Chairman of WAPR who will distribute copies to each board member. The application will be considered by the board and acted upon in a timely manner. The applicant will be notified of the board's decision by the secretary.

In other business, the secretary was directed to contact Badger State Smoke Signals for the purpose of clarifying the relationship between WAPR membership terms and BSSS subscriptions funded from WAPR dues. It is the desire of the board that subscriptions coincide with the WAPR fiscal year.

Frequency allocation for a possible "packet cluster" operation was discussed. Since WAPR has not been formally approached from Amateurs within Wisconsin about establishing such a network, no action will be taken, at this time.

It was mentioned that WAPR will have a table at the January 14, 1989 WARAC Swapfest including an operational packet station. A regular meeting will begin after 1:00 pm in a room near the location of the WAPR table.

The meeting was adjourned at 9:40 pm.

Respectfully submitted,  
Dave Knaus, WA9POV  
Secretary

Minutes of WAPR Meeting  
January 14, 1989

Minutes of the meeting of the Wisconsin Amateur Packet Radio Association held on this date at the WARAC Swapfest, Waukesha, Wisconsin. The meeting was called to order at 1:14 pm by Chairman Dan Bolander, WB9TYT. 24 Members were present.

The minutes of the last regular and board meetings were read and approved. Treasurer Carl Schumacher, N9BYS, reported a balance of \$698.18, not including 13 new members signed up at today's swapfest. The treasurer's report was accepted as read.

Pat, KD9UU, reported on the status of WA9SOU-2 at North Freedom. It is operating only as a digipeater now and will expand to two or

more nodes in the future. He is conducting a fund drive to help support that operation. Rudy, KB9OK, reported on activities on 145.03. Roy, WA9KEC, reported on the status of his PBBS and nodes. He said he is going to go back to WA7MBL version 5.12 PBBS software from the AA4RE BB multi-connect software which hasn't proven as reliable as the MBL system.

The dues increase proposed at the last regular meeting was briefly discussed. A motion was made by WD9DHI and seconded by KD9NV that WAPR dues be raised to \$12.50 effective at the beginning of the next fiscal year, July, 1989. After further discussion, the motion was carried with no votes in opposition.

Packet cluster was briefly discussed and it's operation and purpose was described. It was reported that a cluster is in operation on 220 MHz in Northern Illinois and another is due to begin operation in Racine.

Gerald Wallen, K9EP, the new ARRL STM for Wisconsin, described problems with NTS traffic handling via packet. He encouraged packet operators to handle NTS traffic. Les, W9YCV, asked that a frequency be designated for NTS traffic activities primarily. It was recommended that 145.63 MHz (600 KHz up from the keyboard-to-keyboard frequency) be used for those primarily interested in NTS traffic handling to experiment with and develop methods of handling NTS traffic by packet.

The WAPR Network Reimbursement Fund proposal formulated at the December 30, 1988 Board Meeting was not discussed nor was action taken.

The meeting was adjourned at 2:22 pm.

Respectfully submitted,  
Dave Knaus, WA9POV  
Secretary

New Port At N9BKJ

I have opted to drop the HF port here in favor of another VHF port. The HF port received little use and the bulk of HF traffic handled by this bbs is handled both ways via the WA9KEC bbs. The new port is on 145.09 at 45 watts with a beam pointed to the east. The gateway is open between 145.09 and 145.01. I will also be adding a UHF port here at 45 watts with an omnidirectional antenna. The 145.01 port is still at 175 watts with an omni directional antenna. Increased power will be added to the other ports at funds and equipment permit.

All forwarding will be done on .01, NO FORWARDING WILL BE DONE ON .09. Any concerns over BBS traffic forwarding causing congestion on .09 should be released. The port on .09 should allow area users to gain access to N9BKJ more easily, to pick up their mail and read bulletins of



general interest. The system supports connects on both ports at the same time.

Bob - N9BKJ

#### W9LZQ-1 BBS Callsign Change

W9LZQ-1 BBS in Onalaska, WI, serving the La Crosse, WI / Winona, MN area, will be dropping the "-1" suffix. Bulletin board connection requests must be addressed to W9LZQ after February 1, 1989 for BBS service. This change is to avoid confusion and be more consistent with other BBS's.

#### AA9M Digi Changed to WB9ARG

For connections on 145.01 between WA9SQU-2 and LSE (WA9FIO-1), the intermediate digipeater, AA9M, has changed callsigns to WB9ARG. The temporary change will be in effect for the next 3 months.

#### W8OLE BBS is down.

Tom - W8OLE has announced that his BBS is off the air until further notice. The problem is a burned out video display board in the Xerox 820 computer. Without the schematics, Tom can offer no approximation as to how long it will take to resolve the problem.

#### Automatic HF Packet Extension Granted

ARRL Bulletin NR 3 ARLB003  
From ARRL Headquarters  
Newington, CT  
January 9, 1989  
To all radio amateurs

BT

The ARRL has learned that the FCC has extended the special temporary authority for unattended HF packet stations to pass third party messages until January 5, 1990. The STA extension only applies to those seventy five stations who are currently operating under the STA.

AR

The following two items were received at from WB9ZRE for inclusion in BSSS to inform readers of this apparent fraud attempt. Because BSSS has not had time to confirm the information, we are deleting the name of the company involved, but are including the material to alert readers of the potential hazard of mail ordering from companies that you have not checked out. There are many reliable mail order firms and only a very few bad ones, but you must be alert when ordering.

#### Mail Fraud??!!

Some alarming details have come to light concerning a vendor who is advertising the Uniden HR2510 10 meter transceiver in ham magazines.

Recently ads have appeared for both Dentron and Atlas, manufacturers that stopped making ham gear and went out of business long ago. Some ads have claimed that these firms were involved in a "joint venture" with Uniden to import and market

the popular 10 meter transceivers. Other ads, with a post office box in Lynbrook, New York offer the HR2510 for \$219.95, with shipping prepaid.

Here are some interesting allegations that are going around:

- \* Not one person who sent the \$219.95 ever received a radio.
- \* Former owners of Dentron and Atlas deny any connection with the new firm.
- \* Uniden denies any joint venture, and also says that they have not sold any radios to this firm.
- \* Customers recently received a letter claiming that due to incredible demand, \*\*\*\*\* is unable to ship at this time, but if you don't cancel your order, you are entitled to a \$25 rebate.
- \* Uniden wants to know, since they sell their radios wholesale for \$205, how can anyone sell them for under \$220, shipping included, let alone offer a \$25 rebate on top?
- \* 73 and CQ are no longer accepting ads from this firm.
- \* If you have ordered a ten meter radio from \*\*\*\*\* contact: Postal Inspector, P.O. Box 160, Hicksville, NY 11802-0160.

I purchased a Uniden HR2510 from National Tower, and have been very happy with the radio. Shortly after I got mine for \$239 (before the price went up slightly) I heard from several locals that were bragging about buying one for \$219, shipping included from \*\*\*\*\* No one has received a radio.

I am not trying to scare folks away from Uniden. Just check out \*\*\*\*\* in New York before sending money!

73, Tad - KT7H

#### Buyer Beware!

Much has been circulating with regard to the unfortunate experience of many hams who have been "hoodwinked" by the \*\*\*\*\* offer. Although I feel some sympathy for anyone who is cheated out of their hard earned cash, there is something to be learned from their unfortunate experience.

- 1) Where mail order is involved, never prepay the order, advise the firm offering the equipment or whatever else it is you wish to purchase, to ship it "C.O.D. CASH" or "C.O.D. Certified Check." This accomplishes two things:
  - a) They are guaranteed their receipt of your money upon delivery and;
  - b) You're guaranteed receipt of what you ordered, if it doesn't show, you won't be hoodwinked out of your money.

Note: There's still that 1 percent chance that when you open the box, that it will be full of "ROCKS."

- 2) Any reputable firm I have ever done business with for amateur radio, computer gear, or whatever, has never objected to C.O.D., if they do, "Watch Out", the odds have increased dramatically against you.
- 3) Giving your credit card number, is the same as sending cash ahead of time, you may be able to recover your lost investment in this case, which depends on the policies of the credit card company, after a period of inconvenience,

I wouldn't give my credit card number to anybody over the phone, even if they told me they sat at the "Right Hand of the Almighty."

Many may disagree with my approach to mail order, but remember this: "Your out your money, I'm not, and got everything I ever ordered."

I don't mind the minimal extra cost for C.O.D., its cheap insurance to be sure, that I will receive my eagerly awaited "toys" when the cash changes hands.

Impressing your friends with the news that you saved \$20.00 over what they paid, which eventually cost you the loss of \$250.00, makes one look a little foolish at best.

- 4) Firms or whatever that give you a list of reasons why you must prepay your order, should immediately be tagged with the infamous "RED FLAG." Mail order is at best a risky business, so "BEWARE." Remember, if there's one medium that was ever pursued with great vigor by the professional "CON MAN", it is the mail order medium, they make little or no secret about how effectively they fleece "SUCKERS" of their money. Every nationally syndicated program, such as 60 minutes and others, has done more than one piece on the mail order scam.

So, if you follow these simple rules, your chances are 99.99% that you will never be cheated out of your hard earned cash. Your better off to pay the extra 5 or 10 percent and get what you paid for than to receive a 5 or 10 percent discount on something you never received, which obviously means you lost 100 percent of your investment.

IN GOD WE TRUST, ALL OTHERS ARE C.O.D.

Bob - N9BKJ

#### AUSTRALIAN LINGO

(From Bear Facts, Topeka KZ Zoo. Via ARNS)

Maybe you work an Aussie and he uses some words you don't quite understand. The above publication lists a few as follows:

Starve the lizards--an exclamation of astonishment.

To have kagaroos in one's top paddock--to show signs of mental weakness.

Better than a poke in the eye with a burnt stick--an expression of qualified pleasure, usually a retort.

Father's Day--unhappy, unlucky.

Not much chop--unimpressive, inferior.

Who's robbing this coach--don't interrupt, don't interfere.

Dinki-di--genuine

Good on you--impression of approval, congratulations.

Kick the tin--make a contribution.

Tall Poppy--a person of high position.

Come the raw prawn--try to impose on someone.

She'll be right--an expression of general reassurance.

Sanger--a sandwich.

Soda--something easily done.

MORE FOWL PLAY  
from Ozaukee Radio Club Newsletter

**INTRODUCTION:** This report is a summary of the final report issued on the project for "Creative Applied Research in Economic Stimulation" (Project CRIES), conducted by the U.S. Council for Economic Research during the period 1 September 1963 through 31 August 1965. This summary covers the highlights of the program with brief descriptions of the background methodology and the major conclusions. Complete details and analysis of the results are contained in the full report.

**OBJECTIVE:** The program objective was two-fold. One was to restore to economic viability the economy of the Tutango Archipelago, which was disrupted by the installation of a U.S. Missile Tracking Station, and the other was to demonstrate that this could be accomplished through practical application of the latest state-of-the-art in scientific technology.

**BACKGROUND:** The Tutango Archipelago is a chain of eleven small islands located at 165 25.2' west longitude, 15 5.5' south latitude. The natives of the Boranduli tribe inhabiting the islands developed an economy with a currency made from the crest feathers of the Golden Crested Cockatoo, which abounds on the upper slopes of the mountains on the major island, Maroipu. (The only other known instance of an economy based up rare bird plumage was reported in the March 1964 issue of Scientific American).

The birds are captured by the Boranduli, and the crests, which are about 6 inches long and which have a brilliant golden iridescence, are plucked and woven into belts about 12.5 ft. long. The belts are carefully stored, and at major exchanges of wealth, such as the payment of bride wealth, they are reviewed by a council of elders to establish a value depending on the quality of the crests, age, and condition.

With the advent of the U.S. missile tracking station, the bird population declined. Preliminary field investigations disclosed that the antenna sites on the mountain peaks were in the center of the area used by the birds for mating displays, with a consequent decrease in successful mating. The intent of this program was to selectively stimulate the birds to produce more crest feathers to offset the population decline.

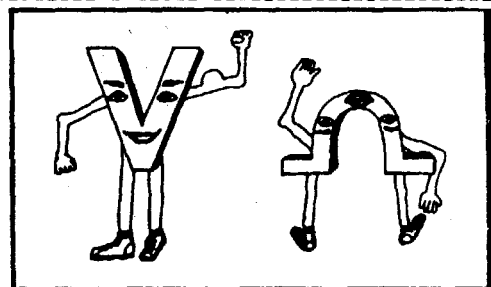
**METHODOLOGY:** To provide a more lavish crest plumage, stimulation of the embryo in the head area to accentuate growth would be more desirable than genetic modification, because the basic physical characteristics were to remain unchanged. The method of stimulation selected was irradiation of the embryo by a radiant energy source for several short periods commencing approximately three weeks after the laying of the egg. Natives were employed to locate newly laid eggs, and location control charts were established. Dissection of an initial sample correlated the external geometry of the egg with the internal location of the embryo head. Irradiation of the head was accomplished by two methods. In the first method, the egg was removed from the nest and placed in a large resonant microwave cavity. The cavity was constructed to focus the millimeter microwaves in the head region, allowing for change in dielectric constant as the energy in the cavity penetrated the egg. The second stimulation technique utilized a laser beam which was defocused then refocused at a spot on the surface of the egg to concentrate the

beam so that high intensities were obtained only within a small volume of space.

A total of 300 eggs were irradiated by each method, with an additional 150 eggs being monitored as controls. Since only two eggs are laid by each nesting pair in each mating, 225 separate nests had to be kept under surveillance. To compensate for losses from predators and other natural causes, a total of 325 separate nest locations were used within a radius of 5.75 miles from the tracking station. Both eggs in a nest were given the same treatment, either with the laser or in the cavity.

The birds reach maturity in plumage approximately 4.5 months after hatching. During the period between hatching and maturity, the birds were identified by banding with a serial code identifying the nesting site and method of treatment. At 4.5 months the birds were trapped and the quantity of crest feathers were measured.

**CONCLUSIONS:** Of the two methods used--irradiation by laser beam and irradiation of a focused microwave cavity--the group which used the microwave cavity had an average of 15.32 crests, while the group using the microwave cavity had an average of 19.41 crests. Clearly then, the group that used cavities had 21% fewer crests.



OHM AND VOLT VALUES TO CHANGE

by John Gatzki (from Worldradio)

Attention radio engineers and technicians.

You all know that an ohm, is ohm ... while a volt is, well ... a volt, right?. Only for one more year.

Effective in January 1990, the ohm and volt values will change worldwide -- which means very sensitive instruments will need recalibrating.

In the US, the volt will change 9.9 ppm (parts per million) while the oh will change about 1.7 ppm, according to the US National Bureau of Standards.

"Any voltage instrument that will read better than 50 ppm (.05% accuracy) might need to be looked at" as far as recalibration, said Dr. Barry Taylor, head of the Fundamental Constants Data Center for the National Bureau of Standards.

Taylor said that ohm measurement instruments probably would need calibrating if their accuracy is within .005%

Chances are the seven-to-eight-digit meters would need recalibrating, but three-to-four digit meters would not, he added.

The 1990 change is the result of four different values being used worldwide and a discovery that the value, last adjusted in 1972 was slightly wrong, Taylor said.

After a few years of discussion, according to Taylor, the change was agreed to in September by the International Committee of Weights and Measurements, making the unit values consistent worldwide.

All countries will make changes to their value, which eliminates problems in determining

the proper constant when comparing voltage sources internationally, Taylor said.

The values for volts and ohms have changed several times since the original value was established in 1885, because of improvements in measurement techniques.

=====

## COMPUTER LINGO

From Grid Leak via QRZ (Denver) via ARNS Bulletin

6502 -- The year your computer will be paid off.

BASIC -- A computer language used to generate errors.

CPU -- C3PO's mother

CRASH -- Normal termination of a program.

CASSETTE DRIVE -- Used as a paper weight after buying a disk drive.

EPROM -- Acronym for "Exit Program, Read Owner's Manual."

DIM ARRAY -- Stupid storage.

GIGO -- "Garbage In, Garbage Out". Normal results of most computer programs.

INPUT -- Statements that refused all entries.

KEYBOARD -- Random arrangement of letters.

LED -- Long Expected Defect.

MAGAZINE PROGRAM -- Typesetters error trap.

NULL STRING -- Normal termination of a four hour sort.

PROGRAMMER -- Knows the location of the on-off switch

RESET -- Another way to end a four hour sort.

RS232 -- R2D2's father

SUBROUTINE -- A section of a program that cannot be reached.

TERMINAL -- Mental state of most programmers.

WAIT -- What else do you do?

=====

## SPECIFICATIONS FOR CONSTRUCTING PIPE FOR A FOREIGN GOVERNMENT

(From Amateur Radio, Wireless Institute of Australia, by VK3CFL - via ARNS)

All pipe is to be made of a long hole surrounded by plastic or metal centered around the hole. All pipe is to be hollow throughout the entire length. Do not use hole of different length than the pipe.

The Inside diameter must not exceed the outside diameter, otherwise the hole will be on the outside.

(continued on page 19)



## Yellow Thunder Amateur Radio Club



**Harry Westlund, K9EHJ,**  
**Secretary**  
**720 Lincoln Avenue**  
**Baraboo, WI 53913**

1989 meeting dates: Tue., Feb. 14, Wed., Mar. 15, Thu., Apr. 13, Mon., May 15, Tue., Jun. 13, Wed., Jul. 19, Thu., Aug. 17, Mon., Sep. 18, Tue., Oct. 17, Wed., Nov. 15, Thu., Dec. 14, 1989. Monday meetings in room 288 of the Baraboo Civic Center; all others in room 25. Meetings start 7:30 p.m.

The January 16, 1989 meeting of the Y.T.A.R.C. was called to order at 8:36 p.m. The minutes of the last meeting were approved as published in the B.S.S.S. The treasurer's report was given as: operating balance, \$194.97; total balance, \$226.91.

There was no old business to discuss.

### New Business:

The club voted in Mr. Marvin E. Kaiser as an Associate Member. Marvin was one of the members of our Novice class, and should be passing his test shortly.

The Kilbourn Flyers, a radio-control airplane club, has asked our club to provide help in the area of R.F.I. It was decided we would offer an exchange of meetings; tentative times would be in March or April.

After open discussion, the club decided they would like to secure an A.R.R.L. video tape for one of our future meetings. The subject agreed upon was the tape on Northern Lights.

Winner of the Buck Nite prize was Steve Schwoegler, who was not present. Next month's prize is \$2.00.

The meeting was adjourned at 9:10.

Respectfully submitted:

Harry Westlund, K9EHJ

### YTARC BIRTHDAZE

No YTARC birthdays for February.

### SENTENCE SERMON

The most important thought I eve had was that off my individual responsibility to God.

---Daniel Webster

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WNA - WIN/L (continued from page 4)

On behalf of all the members, I extend a welcome to N9BDL and W9SIZ, who are becoming regular members of our 2200 club. Hang in there, fellows!

Here are some totals for 1988:

QNI = 1663  
QTC = 725  
QSP = 609 for 84%

73, Ed

### TESTPOINT (continued from page 3)

at 8:30 a.m. and testings starts at 9:00 a.m. For location or other information, inquire on 145.43 MHz. repeater or contact: Greg Garner, WA9W, 4088 Highway 51, Harshaw, WI 54529. Telephone (715) 453-7096.

Third Saturday of every month.

Northern Illinois Volunteer Examiners (DeVry VEC). Held at North Suburban Library on North Second Street in Loves Park, IL. Contact: Gene Melton, AK9N, 2901 Billie Rd., Rockford, IL 61109, (815) 874-6867

### MINNESOTA TESTS

To register for these tests, or for more information, contact as follows:

St. Cloud Amateur Radio Club

Len Carlson at (612) 252-0783

Amateur Radio Association of Bloomington

Art Putt at (612) 881-7181

St. Paul Radio Club, Inc.

Mary Ketzler at (612) 426-4438

Minneapolis Amateur Radio Club

Jeff Kolb at (612) 699-6961.

Minnesota test information courtesy of Marv Mahre, WOMGI.

This section of Badger State Smoke Signals is available to publicize your Volunteer Examiner Amateur Radio license examination schedules.

Please send us your schedules of dates, times, and locations that you will be conducting examinations and we will include the information here. Be sure to include contact address and any other necessary requirements. Information should be sent to K9EN or K9ZZ at the address shown on page 2.

### SPECIFICATIONS (continued from page 18)

All pipes over 500 feet in length should have the words "Long Pipe" printed clearly on each end, so the contractor will know that it is a long pipe. Pipes over two miles in length must also have the "Long Pipe" in the middle to the contractor will not have to walk the entire length of the pipe to determine whether or not it is a long pipe or a short pipe.

All pipes over 6 inches in diameter must have the words "Large Pipe" painted on it so the contractor will not mistake it for a small pipe.

Flages must be used on all pipes. Flanges must have holes for bolts quite separate for the big hole in the middle.

When ordering 90, 45 or 30 degree elbows be sure to specify right hand or left hand, otherwise you will end up going the wrong way.

Be sure to specify to your vendor whether you want level, uphill or downhill pipe. If you use the downhill pipe for uphill, the water will flow the wrong way.

All couplings should have either right hand or left hand threads, but do not mix the threads, otherwise, as the coupling is being screwed together at one pipe, it is being unscrewed at the other.

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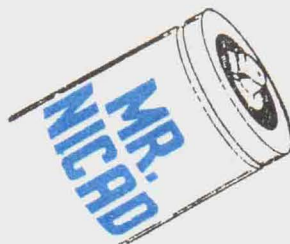
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